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# M.-S. Lawn Grass Seed Mixtures

*Backed by a 20-year reputation*

**M.-S. ROLAND PARK LAWN GRASS** is made from our own formula, and composed of grasses which are adapted for the purposes of producing lawns which retains its rich green color and velvet appearance throughout the entire summer and fall. The quantity required for making a new lawn is 75 to 100 pounds per acre, or for renovating old lawns, 40 to 50 pounds per acre. For a plot 10x25 or 250 square feet, one pound is required for a new lawn, or about one-half pound for renovating. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.75; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

By parcel post add as to Zones.

**M.-S. SHADY NOOK GRASS**—The grasses used in making this special mixture are only those that are well adapted for growing in shade. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.75; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M.-S. PLEASURE GROUND MIXTURE**—This special mixture is made from our own formula, and will produce a permanent turf that will stand the hardest wear. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.75; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M.-S. TERRACE MIXTURE**—There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deep-rooted grasses. Of course, it depends a great deal on this being well started before very heavy rains. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.75; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M.-S. SEASHORE LAWN GRASS**—Is all that its name implies. 1 lb. 50c; 3 lbs. \$1.25; 5 lbs. \$2.25; 10 lbs. \$4.25; bushel of 30 lbs. \$12.00.

**R. S. MEADOW GRASS (Poa Trivialis)**—For shady situations in parks and densely shaded lawns, this grass has no superior. It produces a firm and attractive turf where few other grasses can exist. A fine grass for dry ground under bay windows, overlapping roofs and shady side yards. 1 lb. 75c; 5 lbs. \$3.25; 10 lbs. \$6.00.

**SOUTH GERMAN BENT GRASS**—Especially adapted for putting greens and wherever a velvet-like lawn is wanted. 1 lb. \$1.25

**WHITE CLOVER**— $\frac{1}{4}$  lb. 15c;  $\frac{1}{2}$  lb. 30c; 1 lb. 55c.

**M.-S. PUTTING GREEN MIXTURE**—There is a steady demand for a reliable mixture of grass seeds from those who have found Bent Greens more liable to fungus attack than Greens composed of mixed grasses, and it is to meet this demand that our mixture is prepared.

Our Putting Green Mixture contains a liberal quantity of German Bent in combination with the finest grades of Kentucky Blue Grass and Fancy Red Top, and will give fine satisfaction on green or lawn. Sow 8 to 10 lbs. to 1,000 sq. ft.  $\frac{1}{2}$  lb. 40c; 1 lb. 75c; 5 lbs. \$3.50; 10 lbs. \$6.75; 20 lbs. \$13.00.

**M.-S. FAIRWAY MIXTURE**—A mixture of grasses for fairways is to be preferred to any one grass and our fairway mixture will give splendid satisfaction wherever used. Where quick results are desired we recommend this mixture. 1 lb. 45c; 5 lbs. \$2.00; 10 lbs. \$3.75; 30 lbs. \$10.50.

**CERTIFIED PRINCE EDWARD ISLAND BENT**—A pure hardy strain of Rhode Island Bent (*Agrostis tenuis*). Grown on Prince Edward Island, Canada. It forms an ideal turf of dark green color and uniform in texture. Uniformity of texture is the principal requisite of a good putting green without which the ball will not roll true. 1 lb. \$2.00; 5 lbs. \$9.50; 10 lbs. \$18.00.

**COOS CO. or COCOOS BENT GRASS**—Outstanding in producing the finest of turf. Per lb. \$2.50.

**COLONIAL or RHODE ISLAND BENT GRASS**—Of high germination and purity. Per lb. \$1.50.

We wish to emphasize the fact that one of the important essentials for success in building lawns, lies in the abundant use of Lawn Foods such as Vigoro, Loma, Fairway, Sheep Manure, Bone Meal, Peat Moss, Driconure.

Special price in larger quantities on application on all listed grasses. By parcel post add as to zones.

PRICES ON GRASSES ARE SUBJECT TO MARKET FLUCTUATIONS



## ORDER SHEET

**THE MEYER SEED CO., 34-36 LIGHT ST., BALTIMORE, MD.**

**Kindly write name and address plainly, print preferred.)**

DATE.....192...

SHIP TO.....  
Prefix Mr., Mrs. or Miss,

C/O.....FREIGHT or  
EXPRESS ADDRESS.....

SEND BY.....STATE.....

CHARGE TO.....SUPERINTENDENT'S or  
GARDENER'S NAME.....

CHARGE ADDRESS.....

AMOUNT ENCLOSED	STAMPS	M. O.	CHECK	CASH
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DON'T  
WRITE HERE

**SPEC. TERMS**

**DO NOT FILL OR SHIP UNLESS MARKED  
PAID, OR CHARGE AND REGISTERED**

**PRICE**[illegible]

AMT. FWD.

**THE MEYER SEED COMPANY** give no warranty, expressed or implied, as to the description, purity or productiveness of any seeds, plants or bulbs they send out and they cannot be in any way responsible for the crop. If the customer does not accept the goods on these terms, they can be returned at once.

## SPECIAL NOTICE

It is always best to write letters and inquiries on a separate memorandum. NOT on order sheets.

[illegible]

# 1910-Twenty-first Annual Edition-1931 The Meyer Seed Co.'s Garden Book



A Reproduction of Our Store October 1, 1930, Showing a Complete Display of Spring Flowering Bulbs.

## To Our Customers

THE past season had been most unsatisfactory and disappointing to nearly everyone interested in the horticultural field. This was due to the long drought, particularly in the States of Maryland and Virginia. Even where the greatest care had been exercised upon lawns, gardens, field and orchards, all efforts were to no avail as the beneficial moistures which can only be obtained from rains were lacking. But as is usually the case, a bad season is followed by a good one, and we hope that there will be as many, or even more, enthusiasts scanning the pages of our 1931 Garden Book and that it will be of interest and a real help and profit in their Gardening, Farming and Poultry Problems. We are always trying to secure new and proven varieties of Flowers and Vegetables as well as being on the alert for articles of Merit, to be added to our extensive line of Poultry Equipment and Horticultural Tools. It is our aim to supply only the best in Seeds, Bulbs, Plants, Horticultural Tools and Poultry Supplies. Our growing contracts, for Seeds and Bulbs, are made with the most careful growers in localities where the different varieties succeed the best.

Although we take all possible care to supply only such Seeds as will under proper conditions and care produce good results, WE GIVE NO WARRANTY, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, OR ANY OTHER MATTER OF ANY SEEDS, BULBS, OR PLANTS WE SEND OUT AND WILL NOT

BE RESPONSIBLE FOR THE CROP. It must however be plain to every one who gives the matter the slightest thought that it is to our best interest to send out only such stock as will not only grow, but prove true to name and description. All Seeds that we especially recommend are designated M-S. (Meyer-Special).

We assure you that your orders and good will are highly appreciated, and it shall be our constant purpose to merit your continued confidence, by living up to our motto: "Sterling Quality—Courteous Treatment—and Punctuality."

To new customers we extend a cordial welcome with the assurance that it will be our endeavor to handle your orders to your entire satisfaction, and an opportunity to serve you will be appreciated.

With every good wish for your Happiness and Prosperity throughout the New Year, we are,

Very truly yours,

THE MEYER SEED COMPANY

*John A. Meyer*

President.

(Baltimore, Md., Jan. 1, 1931.)

### PARCEL POST RATES

We deliver by PARCEL POST FREE to any Postoffice in the United States all cash orders for Flower and Vegetable Seeds in packets, ounces and  $\frac{1}{4}$  pounds, unless otherwise noted. No seed delivered free unless order is accompanied with the cash. For postage on Peas, Beans, Corn, Vegetable and Field Seeds in larger quantities and All Merchandise, consult following table. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 ozs. at the Zone Rate.

NOTE.—When estimating postage on goods not included in our free delivery, bear in mind that while the packing on one pound may only weigh the fraction of a pound, it must be considered as a full pound when adding postage. On larger quantities add postage in proportion.

Limit of weight for delivery within local, first, second and third zones is 70 pounds; to all other zones, 50 pounds.

When larger quantities are wanted we can pack in two or more

parcels if necessary, provided money is remitted to cover postage.

	Each	1st lb.	Add'l lb.
1 and 2 zone—150 miles.....	7c	1c	
3 zone—150 to 300 miles.....	8c	2c	
For each additional zone add 1c. For each additional lb. add 2c.			

### POISONS AND LIQUIDS CANNOT BE SENT PARCEL POST

**How To Send Money**—Remittances may be sent either in the form of a Money Order, Bank Check or Draft, or if currency is sent it should be registered. Postage stamps are satisfactory for small amounts.

**Orders From Unknown Correspondents**—We often receive orders from unknown correspondents without remittances, who request that we forward the goods and payment will be sent later. Please do not ask us to do this unless established credit has been previously arranged with us, as satisfactory business references must always be given by customers wishing to open accounts for credit.

**IMPORTANT.**—Merchandise to be credited must be returned within five days in good order free of expense to us.



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Plant in succession.  
Keep your garden space  
busy all the time, and you  
will be eating fresh vege-  
tables all summer at a profit.

# Planting Calendar

Make Your Garden Work  
Spring, Summer, and Fall.

## FLOWERS

### MARCH

Sow Outdoors	
Sweet Peas.	
Plant Indoors	
Set Out	
Ageratum .....	May 1
Antirrhinum (Snap- dragon) .....	May 15
Asters .....	May 10
Carnation, Marguerite. ....	May 1
Celosia, Cockscomb. ....	May 1
Cobea scandens. ....	May 1
Heliotrope .....	May 10
Hollyhock .....	May 10
Lobelia .....	May 1
Pansy .....	May 1
Petunia .....	May 1
Salvia .....	May 1
Stocks (Gilliflower) ....	May 15
Verbena .....	May 1
Wallflower .....	May 1

### APRIL

Sow outdoors Nasturtiums.	
All those listed for March may also be planted in April, and, in addition, the following:	
Sow Indoors	
Set Out	
Alyssum .....	May 1
Calendula .....	May 1
Coleus .....	May 15
Cosmos, Late .....	May 1
Dahlias .....	May 1
Delphinium Chinese. ....	May 15
Gourds, Ornamental ....	May 1
Helianthus Sunflower. ....	May 1
Marigold .....	May 1
Mignonette .....	May 1
Nicotiana .....	May 1
Phlox Drummondii. ....	May 1
Poppy, Iceland. ....	May 15
Ricinus (Caster-Oil Plant) .....	May 10
Salpiglossis .....	May 10
Scabiosa .....	May 1
Vinca rosea .....	May 10
Zinnia .....	May 1

### MAY

This is the month of outdoor  
sowing and planting. The fol-  
lowing list of flowers com-  
prises those which may be  
sown in the open, and which  
will mature into perfection  
before frosty weather sets in.

**Sow Outdoors**  
(Do not require transplanting)

Sweet Alyssum  
Calendula  
Calliopis  
Candytuft  
Centaurea (Bachelor's Button)  
Chrysanthemum, Annual  
Clarkia elegans  
Cosmos, Early

### MAY—Continued

Delphinium Chinese
Dianthus (Chinese Pinks)
Eschscholtzia (California Poppy)
Gaillardia (Blanket Flower)
Godetia
Ornamental Gourds
Helianthus cucumerifolius (Miniature Sunflower)
Hunnemannia fumariifolia
Larkspur, Annual
Lupins, Annual
Marigold
Mignonette
Morning Glory
Nasturtiums
Petunia
Phlox Drummondii
Poppy
Portulaca
Salpiglossis
Scabiosa
Verbena
Zinnia
and all other annuals (Should be transplanted)
Asters
Balsam
Celosia (Cockscomb)
Cosmos, Late
Dahlias
Marigold
Mignonette
Nicotiana
Ricinus

### JUNE

This is the month to sow  
perennials. The varieties listed  
below can easily be grown  
from seed. All of them may  
be sown from June till middle  
of September.

#### To Remain Where Sown

Alyssum saxatile compactum
Aconitum (Monks Hood)
Aquilegia (Columbine)
Asters, Hardy
Coreopsis
Campanula (Bluebells)
Candytuft, Sempervirens
Hibiscus
Lupins
Poppies, Iceland
Poppies, Oriental
Sweet William
Valerian (Garden Heliotrope)
To Be Transplanted
Canterbury Bells
Delphinium (Larkspur)
Digitalis (Foxglove)
Gaillardia grandiflora
Hollyhocks
Pyrethrum

## FLOWERS—Continued

### JULY

This is the most important  
month for sowing some flower  
seeds. The following biennials,  
if sown in July and transplant-

ed in August or September, will  
flower the following spring.

Variety	
Bellis (English Daisies)	
Pansies	
Myosotis (Forget-me-not)	

### Bulbs, Tuberous Roots and Potted Plants

#### MAY

Plant Outdoors	
Begonias	Dahlias
Caladiums	Gladioli
Peonies	Tuberoses
Cannas	

#### SEPTEMBER, OCTOBER AND NOVEMBER

Hyacinths	Lilies
Tulips	Jonquils
Narcissus	Crocus
In fact, all Spring Flowering Bulbs.	

## VEGETABLES

### MARCH

The only vegetables to be  
planted out-of-doors in March.  
**All early peas and onion sets.**  
There are a number of vege-  
tables, however, which may be  
started indoors or in hotbeds.

Plant Indoors	
Set Out	
Artichoke, Globe. ....	June 1
Cabbage, Early. ....	April 1
Cauliflower, Early. ....	May 1
Celery .....	June 1
Eggplant .....	May 15
Kohlrabi .....	April 15
Lettuce .....	April 15
Parsley .....	May 1
Pepper .....	May 15
Tomato .....	May 1

### Outdoors

Peas, Early Smooth
Onion Sets

### APRIL

All the seeds mentioned in  
the March table can be started  
in April, and also the follow-  
ing:

Plant Indoors	
Set Out	
Beets .....	May
Brussels Sprouts .....	June
Cabbage, Late .....	June
Cauliflower, Late .....	June

### Plant Outdoors

Asparagus,	Parsley
Roots	Parsnip
Beets	Peas, Early
Carrots	Wrinkled
Cress	Potatoes
Kohlrabi	Radish
Lettuce	Rhubarb, Root
Mustard	Swiss Chard
Onion Seed	Squash
Onion Sets	Turnip
Set out Lettuce started in- doors in March.	

### MAY

#### Plant Outdoors

Asparagus Seed	Watermelon
Beans, Bush	Okra
Beans, Pole	Peas, Late
Corn, Sugar	Pumpkin
Cucumber	Squash
Muskmelon	

All the seeds mentioned in  
the April table may also be  
sown in May.

Set out early cabbage, early  
cauliflower and tomato plants  
started indoors in March and  
April.

### JUNE

#### Plant Outdoors

Beans, Late Bush
Beans, Late Pole

Set out Globe artichokes  
Brussels sprouts, late cabbage,  
cauliflower, celery, eggplants  
and peppers which have started  
indoors.

Plant Swiss chard, sugar  
corn, lettuce, late peas  
radishes, beets and turnips for  
late crops.

### JULY AND AUGUST

#### Plant Outdoors

Stringless Green Pod Beans
Stringless Wax Pod Beans
Ruta Baga
Winter Radishes
Kale, Turnip
Spinach

### SEPTEMBER AND OCTOBER

#### Plant Outdoors

Corn Salad, Spinach
Kale, Multiplying Onion

#### Plant Under Glass

Lettuce, Parsley
Early Radishes

## Grow Vegetables for Winter Use

After you have harvested your early crop of vegetables why  
not plant a second crop for winter use?

It is in winter that vegetables cost most.

Your garden can be made to save you a great deal of money  
if you plant succession crops during the summer and early fall.

Sow Beets and Carrots any time during June. Turnips are  
sweetest if planted the latter part of June or early in July.

Summer Radishes can be sown all during June and July.

Sweet Corn sown the middle of June will give fine tender ears  
early in October. A row of Bush Beans planted during the first

week of July will bear an immense crop of juicy and snappy pods  
until frost.

Cucumbers planted the last two weeks in June will make the  
finest pickles you ever raised.

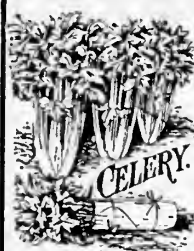
Also try a row of Chinese Cabbage. It does best if planted  
early in August. For a good supply of crisp and juicy Head  
Lettuce for the fall table, sow the seed about the second week in  
July. And don't forget to sow a long row of Spinach any time  
during August, to give plenty of greens until snow covers  
the ground.

What to Spray and What to Spray for	Spray With	Time of First Spraying	Time of Second Spraying	Time of Third Spraying
<b>APPLES—</b>				
Bitter Rot.....	Bordeaux mixture, Pyrox.....	First appearance of rot.....	One to two weeks later.....	Two weeks later.
Canker Worm.....	Arsenate of lead, Pyrox.....	On first appearance of worms..	Two or three days later if worms remain.....	Same as second.
San Jose Scale.....	Scalecide or lime-sulphur.....	Just as the leaf buds are swelling.....	Just before the flower buds open	As soon as the petals have fallen.
Scab.....	Scalecide or lime-sulphur.....	After the leaves have come out, but before the flower buds appear.....	Within eight days from the time petals drop.....	One month later.
Codling Moth.....	Arsenate of lead, Pyrox.....	Within eight days from the time the petals drop.....	One month later.	
<b>ASPARAGUS—</b>				
Beetle.....	Arsenate of lead, Pyrox.....	Early spring.		
Rust.....	Bordeaux mixture or Pyrox.....	After cutting crop.....	Ten days later.....	Ten days later.
<b>CABBAGE AND CAULI- FLOWER.</b>				
Slug Shot, Bug Death, Pyrox..		On first appearance of worms..	Whenever worms are noticed.	
CELERY.....	Bordeaux mixture, Pyrox.....	On young seedlings.....	Repeat on seedlings.....	Before or after transplanting.
<b>CHERRY—</b>				
Aphis.....	Black Leaf 40, Red Arrow.....	At first appearance.....	Repeat as necessary.	
San Jose Scale.....	Scalecide or lime-sulphur.....	Spray same as for apples.		
Leaf-spot.....	Scalecide or lime-sulphur.....	Just before blossoms open.....	When fruit is free from calyx.	
<b>CUCUMBERS—</b>				
Anthracnose.....	Bordeaux mixture, Pyrox.....	When plants begin to run.....	Two weeks later.....	Two weeks later.
Downy Mildew.....	Bordeaux mixture, Pyrox.....	When plants begin to run.....	Ten days later.....	Nine days later.
<b>CURRENT—</b>				
Leaf-spot.....	Bordeaux mixture, Pyrox.....	As leaves are unfolding.....	Two weeks later.....	Two weeks later.
Worm.....	White hellebore, Pyrox.....	When they first appear.....	In three or four days.....	Repeat three or four days later.
<b>GOOSEBERRY—</b>				
Leaf-spot.....	Bordeaux mixture, Pyrox.....	Before leaves start.....	Two weeks later.....	Two weeks later.
Worm.....	Same as for currants.			
Mildew.....	Grape dust, Pomo dust.....	When buds are breaking.....	Repeat every ten days until fruit is gathered.	
<b>GRAPE—</b>				
Anthracnose.....	Bordeaux mixture, Pyrox.....	Just before the buds open.....	Just before blossoming.....	After fruit has set.
Berry Moth.....	Arsenate of lead, Pyrox.....	Before blossoms are ready to open.....	After blossoms have fallen.....	Ten days later.
Downy or Powdery Mildew.....	Bordeaux mixture, Pyrox.....	Just before blossoming.....	After fruit has set.....	Ten days later.
Rot.....	Bordeaux mixture, Pyrox.....	Just before blossoming.....	Just after fruit has set.....	Eight days later.
<b>MUSKMELON—</b>				
Anthracnose.....	Bordeaux mixture, Pyrox.....	When plants begin to vine.....	Two weeks later.....	Two weeks later.
Downy Mildew.....	Bordeaux mixture, Pyrox.....	July 25 to August 1.....	Ten days later.....	Nine days later.
Leaf-blight.....	Bordeaux mixture, Pyrox.....	When plants begin to vine.....	Three weeks later.....	Three weeks later.
<b>PEACH—</b>				
Leaf-Curl.....	Scalecide, lime-sulphur or bordeaux mixture.....	In March or April, or both, to make doubly sure.....	Two or three weeks later.	
Brown Rot.....	Self-boiled lime-sulphur and arsenate of lead.....	About time shucks are shedding from young fruit or on first appearance.....		About one month before fruit ripens. Omit arsenate of lead.
Stab.....	Sulfocide, self-boiled lime-sulphur.....	Just as buds begin to swell.....	After fruit has set.....	Repeat later when fruit is about half grown.
San Jose Scale.....	Scalecide or lime-sulphur.....	Spray same as for apples.		
<b>PEAR—</b>				
Leaf-blight.....	Bordeaux mixture.....	Cut out the branches on first appearance on twigs.		
Psylla.....	Black Leaf 40, Red Arrow or whale-oil soap.....	In winter use commercial lime-sulphur for eggs.....	After blossoms fall.....	Repeat at intervals of three to seven days.
<b>PLUM—</b>				
Curellio.....	Arsenate of lead.....	With starting of buds.....	Just after blossoms drop.....	Five days later.
Aphis.....	Whale-oil soap, Black Leaf 40.	On appearance of Aphis.....		
Shot-hole Fungus.....	Scalecide, lime-sulphur or bordeaux mixture.....	When leaves are half grown... As buds are swelling or on appearance.....	Three weeks later.....	Three weeks later if necessary.
Rot.....	Bordeaux mixture, Pyrox.....		Just after calyx drops.....	Three or four weeks later.
<b>POTATO—</b>				
Early Blight.....	Bordeaux mixture, Pyrox.....	When plants are 6 inches high.	Seven to ten days later.....	Two weeks later.
Late Blight.....	Bordeaux mixture, Pyrox.....	As for early blight to July.....	July 15 to 20.....	Two weeks later.
Potato Beetle.....	Paris green, slug shot, bug death, Pyrox. Calcium arsenate.....	When pest appears.....	Repeat if necessary.	
<b>ROSE—</b>				
Leaf-spot.....	Pomo dust, All in one dust.....	On first appearance of fungus..	Two or three weeks later.....	Repeat if necessary.
Mildew.....	Powdered sulphur, Pomo dust, All in one dust.			
Slug, Aphis, etc.....	Red Arrow, Evergreen, Black Leaf 40, Nicofume Liquid, All in one dust.....	On appearance of slugs, etc....	Repeat if necessary.	
<b>SQUASH—</b>				
Aphis.....	Red Arrow or Black Leaf 40.	Spray under side of leaves.		
Lady Beetle.....	Arsenate of lead, Pyrox.....	As soon as pest appears.		
<b>TOMATO—</b>				
Anthracnose.....	Bordeaux mixture, Pyrox.....	Soon after fruit begins to set..	Three weeks later.....	Three weeks later.
Leaf-blight.....	Whale-oil, soap and water.....	Three weeks after transplanting.....	Three weeks later.....	Three weeks later.
White Fly.....	Bordeaux mixture, Pyrox.....	Spray underside of leaves Thoroughly.		

## Legal Weights of Seed and Grain Also Quantity Per Acre to Sow

Lbs. per bu.	Lbs. per acre	Lbs. per bu.	Lbs. per acre	Lbs. per bu.	Lbs. per acre	Lbs. per bu.	Lbs. per acre
48 Barley.....	75—100	60 Clover, Alfalfa, broadcast.....	18—22	60 Clover, Red (on small grain in spring).....	7—12	60 Peas, Cow peas (broadcast).....	75—90
60 Beans, Soy, drills.....	30—40	60 Clover, Alsike, (alone for forage).....	8—15	60 Clover, Sweet (hulled).....	10—15	50 Rape (drills).....	4—8
60 Beans, Soy, Broadcast.....	60—80	60 Clover, Alsike, (on wheat or rye in spring).....	4—6	60 Clover, White.....	10—20	50 Rape (broadcast).....	8—10
14 Bluegrass, Kentucky.....	21—28	60 Clover, Crimson.....	12—15	50 Millet, All Varieties.....	40—50	32 Red Top, Fancy.....	15—20
48 Buckwheat.....	50—75	25 Clover, Japan (Lespedeza).....	15—25	32 Oats.....	50—65	56 Rye.....	56—112
50 Cane, drills.....	10—15	60 Clover, Red Sapling (Mammoth) (alone for forage).....	10—15	14 Orchard Grass.....	20—30	25 Sudan Grass.....	15—25
50 Cane, broadcast.....	50—75			60 Peas, Cow peas (drills).....	45—60	45 Timothy.....	15—20
60 Clover, Alfalfa, drills.....	15—20					60 Vetch, Hairy (drills).....	35—50
						60 Vetch, Hairy (broadcast).....	50—75
						60 Wheat.....	90—120





## Vegetable Plants and Roots

Cash with Order—No Plants Sent C. O. D.

All of our plants are produced from our M.-S. SURE GROWING SEEDS, and will give wonderful results. If wanted in larger quantities, write for special quotations. The time when plants are ready is greatly controlled by the season, the specified time is the earliest date.

### ARTICHOKEs (Ready in April)

Jerusalem—Used for the table and stock feeding. Qt. 35c; peck \$1.50; per bushel of 60 lbs. \$5.00.

### ASPARAGUS ROOTS (Ready Oct. 15 to May 15)

Two-year-old roots usually produce second year after planting.

2-Year-Old Roots.	Doz.	100	1000
Columbian Mammoth White (White)	\$0.30	\$1.25	\$ 9.00
Palmetto (Green Stalks)	0.30	1.25	9.00
Mary Washington (Dark Green Stalks)	0.50	1.75	12.00

If wanted by mail add 10c to doz.; 15c to 100; 35c to 1000.

### BORECOLE PLANTS (Ready July 1)

20c doz.; 75c per 100; by mail, add 5c to doz.; 15c to 100.

### BRUSSELS SPROUTS (Ready in July)

Matchless Improved—12 for 25c; 75c per 100; per 1000, \$6.00. If wanted by mail, add 10c per 100 for postage; 5c per doz.

### FROST-PROOF CABBAGE (January to May)

Our FROST-PROOF CABBAGE PLANTS mean increased profits for the Market Gardener, and earlier cabbage for the Home Gardens, as they produce heads at least two or three weeks earlier than plants grown in hot beds or cold frames. They are tough and hardy and will stand any reasonable cold, even as low as 20 degrees above zero without damage to them.

These plants do not begin any new growth of their tops until the spring weather arrives, however, the roots of the plants have become so firmly established that the warm spring sunshine soon hastens the growth of them.

We advise all cabbage growers to set these plants at least a month to six weeks earlier than you would set home-grown plants to get the desired results.

Send in your order about a week or ten days before plants are wanted, as it takes a few days to get plants to you.

Varieties—Early Jersey Wakefield, Charleston Large Wakefield, Copenhagen Market, Early Flat Dutch and Succession.

Prices by parcel post prepaid: 50c per 100; 500 for \$1.60; 1,000 or more at \$3.00 per 1,000 plants.

By express, customer paying express charges: 1,000 to 4,000 at \$2.00 per 1,000; 5,000 or more plants at \$1.50 per 1,000; cash with order.

### CABBAGE PLANTS (Season beginning April 1)

Early Flat Dutch and Jersey Wakefield—From hot beds. 15c per doz.; 50c per 100; per 1000, \$4.00.

Late Flat Dutch and Savoy—15c doz.; per 100, 50c; \$4.00 per 1000. If cabbage plants are wanted by mail, add 10c per 100; 5c dozen; 25c 1000. Ready May 15th.

### CAULIFLOWER PLANTS (Ready April 1)

Snowball, variety only—From hot beds. 25c per doz.; \$1.50 per 100. By mail, add 5c per doz., or 10c per 100 for postage charges.

### CELERY PLANTS (Ready in July)

Golden Heart, White Plume, Giant Pascal, Winter Queen and Golden Self-Blanching. 25c dozen; \$1.00 per 100; \$7.50 per 1000. By mail, allow 10c per 100 for postage; 5c per dozen.

### EGG PLANTS POTTED (Ready after May 1)

M.-S. Ebony King and Black Beauty—7c each; 75c doz.; \$5.50 per 100. Best sent by express. Mail, add 2c to each plant.

### HORSE RADISH ROOTS (Ready in March)

Mailner Kren (Bohemian)—Large, strong cuttings, 35c per doz per 100, \$1.00; \$7.00 per 1,000. If Horse Radish are wanted by mail, add 10c per 100 for postage; 5c per doz.

### LETTUCE PLANTS (Ready April 1)

Leading varieties—10c doz.; 50c per 100; \$4.00 per 1,000. If wanted by mail, add 10c per 100 for postage; 5c doz.

### CRYSTAL WAX AND YELLOW BERMUDA

#### ONION PLANTS (January to May)

Onion Plants are fast taking the place of the old dry sets. Our Onion Plants are grown from the best and purest seed obtainable, bred up to the highest degree which assures you that they will not revert back to the hot red Onion. The Bermuda Onion is very sweet and mild and can be eaten like an apple. Onion Plants produce the matured Onion two weeks or more ahead of the dry set on account of the fact that the dry set has to be absorbed by the new growth before it begins to grow the new onion, whereas the Plant begins to grow as soon as it is planted and makes more headway than the set and gives you young green table Onions in a very few weeks. Onion Plants do not produce splits and doubles or run to seed like the dry sets. They will stand the most severe cold weather, even more than Cabbage Plants, and when the tops are frozen to the ground they will come out again and produce the finest onions. For small gardens these plants may be planted in rows 6 inches apart and 4 inches apart in the drill and on a spot 12 feet square it will take almost 1,000 plants.

All Onion Plants are tied 100 to the bunch and all orders should be sent in for even hundreds.

Remember that our Plants are GUARANTEED to reach you in good condition and full count and if you are not entirely satisfied your order will be refilled without question FREE OF CHARGE.

Prices by parcel post prepaid: 50c per 100; 500 for \$1.60; 1,000 or more at \$3.00 per 1,000 plants.

By express charges collect: 1,000 to 4,000 at \$2.00 per 1,000; 5,000 or more plants at \$1.50 per 1,000.



Plants grown on Paper Mulch mature quicker and are of nner quality.

### PEPPER PLANTS (Ready in May)

California Wonder (Sweet), Long Red Cayenne (Hot).—Hot Bed Grown. 25c per doz.; per 100, \$1.50. By mail, add 10 per 100; 5c doz.; Potted Plants, California Wonder only, 6c each; 60c doz.; \$4.50 100; if to go by parcel post, add 1c to each plant.

### RHUBARB ROOTS

(Ready October to May 15)

Victoria—First Size Roots. 10c each; \$1.00 per doz.; per 100 \$7.50. Allow 5c each or 20c dozen for postage, if wanted by mail.

### SWEET POTATO PLANTS (Ready May 15th)

Yellow Big Stem and Up Rivers—50c per 100; 1,000, \$4.00. If wanted by mail, allow 8c per 100 for postage, 25c per 1,000.

### TOMATO PLANTS (Ready after April 15)

Pot-Grown Plants in the following varieties only: Early Wonder, Bonnie Best, Chalk's Jewel, 7c each; doz. 75c; \$5.50 per 100. By mail, add 1c per plant.

Hot-Bed Plants: Bonnie Best, Marglobe, Stone. 20c per doz.; per 100, 60c; \$4.00 per 1000. By mail, allow 5c per doz.; 15c per 100; 40c per 1000.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs., 1 lb. of Vegetable Seeds.

## Asparagus—Seeds and Roots

(German—Spargel. French—Asperge)

(ROOTS READY AFTER MARCH 1st)

One ounce to forty feet of drill; 5 lbs. per acre.  
7,300 Asparagus Plants are needed to plant an acre.

Mary Washington Asparagus.

tinted darker at the tips. It is a early heavy yielder of exceptionally fine flavor. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50.**Palmetto**—It is of very large size, even and regular in growth and appearance. It is a very early sort, and immensely productive and of the best quality. Green shoots. Pkg. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

For Plants, see page 5.

## Artichokes

**Large Green Globe**—This is a very delicious vegetable. Some prefer it cooked like asparagus—that is, take the flower head before it begins to open and cook much the same as asparagus. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.40; 1 lb. \$5.00.**Artichoke Roots (Jerusalem)**—Price, see page 5.

## Brussels Sprouts (German—Rosenkohl) (French—Choux de Bruxelles)

A variety of the Cabbage family, possessing the peculiarity of bearing upon its stem or stalk from fifty to one hundred buds resembling miniature Cabbage heads. The leaves composing these heads resemble Savoy Cabbage in their crumpled texture and also in their color. The heads or buds, one to two inches in diameter, form one of the most delicious garden vegetables, only equalled by the Cauliflower. Treat same as Cabbage.

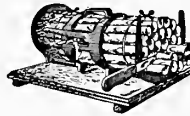
**Improved Dwarf**—Produces compact sprouts of finest quality; a good keeper. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50.

For Plants, see page 5.

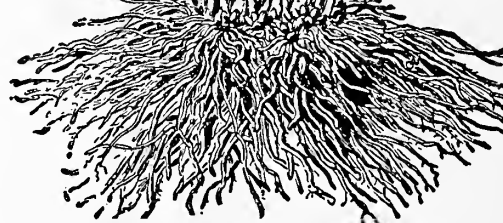


Improved Dwarf Brussels Sprouts.

## Accessories for Asparagus Culture

**Asparagus Buncher**—Even where one has a limited amount of asparagus to market it pays to use a buncher. It is quickly tied and looks uniform. With Knife Guard, \$4.50. Parcel post weight, 8 lbs.**Asparagus Knife**—V-shaped blade, 40c. Parcel post wgt., 1 lb.**Asparagus Salt**—Applied in the Spring, 600 to 800 lbs. per acre, for destroying weeds. 3c lb.; 50-lb. \$1.00; 100 lb. \$1.50; 140 lb. bag \$2.00.**Raffia**—The ideal material for tying asparagus, 30c per lb. in hanks.Hank runs about 2  $\frac{1}{2}$  lbs. 25 lbs. or more at 25c per lb. Green Raffia 85c lb.**Jute Twine**—Very soft and pliable. 25c per ball. Postpaid 30c.

Special price on quantities on application.

**Red Tape** for tying asparagus, 1000 yds., \$2.75. Postp'd \$2.85.PRICES  
SUBJECT  
TO  
CHANGE

Two-Year-Old Asparagus Plants, see page 5.

## Broccoli

(German—Spargelkohl) (French—Buccoli)

A plant much resembling the Cauliflower. Broccoli requires a longer season to develop than Cauliflower. It has more numerous and stiffer leaves; heads are smaller. Treat same as Cabbage.

One ounce of seed to 200 feet of row.

**Early Large White**—Heads medium size, close and compact. One of the most certain to head. Pkt. 10c; oz. \$1.00.**Early Purple Cape**—Rather hardier sort, with greenish-purple heads, good flavor. Pkt. 10c; oz. \$1.00.

## Italian Sprouting Broccoli

**CULTURE**—Sow about middle of August in rows 32 in. apart well fertilized, using 2 lbs. of seed to the acre, covering the seed  $\frac{1}{2}$  in., cultivate twice before freezing weather. In cold weather tops will die down. As soon as it begins to get a little warm in February, put on a top dressing of Nitrate of Soda or some quick acting fertilizer. Cultivate after top dressing is put on. About the middle of March it will commence to stalk up with several shoots per stalk, with green blossoms. When stalks are about 8 inches high cutting may commence. Tie in bunches like asparagus, with one to one and a half lbs. in a bunch. Ship in crates, 2 doz. bunches per crate. Cutting will commence around the middle of March and continue until around the 10th of April. If weather is warm may cut 2 to 3 times each week. After cutting is over the same land may be used for any desired crop. Leaves may be cut and shipped to northern markets, commanding a fair price.

Served like Asparagus or Greens, it makes a delicious and wholesome dish.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 45c; 1 lb. \$1.50.

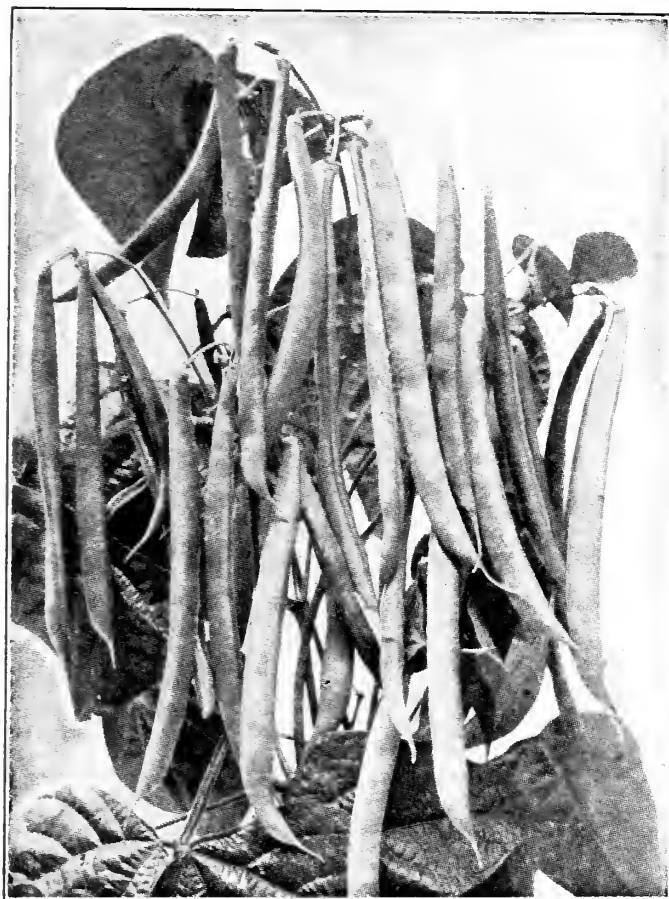
## Italian Broccoli Calabrese

This variety is the broccoli which is served in the first class hotels of Metropolitan cities. It is cooked and served like cauliflower; it has a delicious flavor and is highly praised by epicures.

**CULTURE**—Sow seed in open ground 1st of April. Set plants out May 15th to June like late cabbage. Pkt. 25c; 1 oz. 60c;  $\frac{1}{4}$  lb. \$1.75; 1 lb. \$6.00.

Italian Broccoli Calabrese.





Full Measure Beans.

## BUSH BEANS—Green Podded

**CULTURE**—The seed should not be planted before the ground becomes light and warm, in favorable seasons, usually about the middle of April to first of May. The soil should be rich and mellow, and the seeds scattered about three inches apart in drills two feet apart, and covered about two inches deep. Successive sowings made at intervals of about two weeks until August 15th, will give a plentiful supply of Beans all season. One quart of seed will sow 100 feet of drill; two bushels will sow an acre. We furnish 10c packages of all Beans.

If beans are to be sent by parcel post, add 5c to  $\frac{1}{2}$  pt.; 8c to pt.; 9c to qt.; 15c to  $\frac{1}{2}$  pk.; 22c to pk.; 75c to bus.; pkt. sent postpaid.

**Burpee's Stringless Green Pod**—An ideal variety having round slightly curved, fleshy and exceedingly tender pods. Matures a few days earlier than the Giant sort. Pkt. 10c;  $\frac{1}{2}$  pint 15c; 1 pint 25c; 1 qt. 45c;  $\frac{1}{2}$  pk. \$1.65; pk. \$3.00; bus. \$10.00.

**M.-S. Giant Stringless Green Pod Beans**—Of finest quality, large handsome pods, some of which measure fully 6 inches in length. Very productive, very fleshy and entirely stringless. Specially adapted to the home garden. Pkt. 10c;  $\frac{1}{2}$  pint 15c; 1 pint 25c; 1 qt. 50c;  $\frac{1}{2}$  pk. \$1.75; pk. \$3.25; bus. \$11.00.

**Bountiful**—Easily the earliest and most productive flat, green-podded, stringless bush bean in cultivation today. Under favorable conditions of soil and season this variety has been known to bear one bushel of pods per 15-foot row, in the course of the season. The pods average 6 inches long by  $\frac{3}{4}$  inches wide, are thick through, of pleasing light green color, very brittle and absolutely stringless at all stages of development. Bountiful tastes as good as it looks. Prices same as above.

**Early Red Valentine**—One of the most popular early snap beans with round, fleshy pods about five inches in length; very brittle, tender and of fine quality. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pint 25c; qt. 40c;  $\frac{1}{2}$  pk. \$1.50; pk. \$2.75; bus. \$10.00.



**Black Valentine, or May Queen**—Has very long handsome round pods, and being immensely productive places this variety as one of the most profitable for the market gardener. It is very early. Prices same as above.

**Asgrow Valentine**—This new introduction is typically Black Valentine, has all the sturdy characteristics which popularized

Black Valentine as a producer and shipper—has long, practically straight, oval pods of good color and texture and is completely stringless. Pkt. 10c;  $\frac{1}{2}$  pint 35c; pint 60c; qt. \$1.00;  $\frac{1}{2}$  pk. \$3.75; 1 pk. \$7.00; bus. \$24.00.

**New Stringless Greenpod**—Pods absolutely stringless, round, slightly curved, medium green, recommended for canners, also as a late sort for market garden and home. Pkt. 10c;  $\frac{1}{2}$  pt. 25c; pint 40c; quart 75c;  $\frac{1}{2}$  pk. \$2.25; peck \$4.00; bushel \$14.50.

**Dwarf Horticultural, or Cherry**—This is a broad, long flat meaty bean, very productive, of delicious flavor; absolutely stringless. It also makes a good dried bean for winter.  $\frac{1}{2}$  pt. 15c; 1 pt. 25c; 1 qt. 50c;  $\frac{1}{2}$  pk. \$1.75; pk. \$3.25; bus. \$12.00.

**Full Measure**—A recent introduction. Heavy light green foliage. Very prolific. Pods  $5\frac{1}{2}$  to 6 inches long, stringless, round, slightly curved, very good quality. Pkt. 10c;  $\frac{1}{2}$  pint 20c; 1 pint 35c; 1 qt. 60c;  $\frac{1}{2}$  pk. \$1.75; 1 peck \$3.00; bushel \$11.00.

**Masterpiece**—This is a large, flat-podded variety, especially adapted for growing under glass, though it may be grown successfully outdoors. Pkt. 10c;  $\frac{1}{2}$  pt. 30c; pt. 50c; 1 qt. \$1.00.

## Shell Beans For Winter Use

**White Navy, or Boston Pea Beans**—Yields large quantities of white shell beans, which are used for baking. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 40c;  $\frac{1}{2}$  pk. \$1.00; peck \$1.75; bus. \$6.00.

**White Marrowfat**—Planted almost exclusively for winter use, making large white, kidney shaped beans. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; pt. 35c; qt. 60c;  $\frac{1}{2}$  peck \$2.00; peck \$3.50.

## BUSH BEANS—Wax or Yellow Podded

**M.-S. SURE CROP STRINGLESS WAX**—This is a grand bean. Absolutely stringless and a great rust resister. Will produce an abundance of long yellow flat pods. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; 1 pt. 25c; quart 50c;  $\frac{1}{2}$  peck \$1.75; peck \$3.25; bushel \$11.00.

**Currie's Rust-Proof Black Wax**—Valuable for general use, being early, hardy, and a heavy yielder. Extra long flat pods of fine color and not apt to rust. Price same as above.

**Davis Kidney Wax**—Beans handsome flat yellow pods. White seed. Price same as above.

**Improved Golden Wax**—Small plants of erect growth, bearing flat thick pods about 5 inches in length, and of excellent quality. An early and reliable variety, recommended for home use. Price same as above.

**Round Pod Kidney Wax**—As its name implies, this is a round podded bean, which is very brittle and juicy. Price same as above.



M.-S. Sure Crop Stringless Wax.

If beans are to be sent by parcel post, add 5c to  $\frac{1}{2}$  pt.; 8c to pt.; 9c to qt.; 15c to  $\frac{1}{2}$  pk.; 22c to pk.; 75c to bus.; pkt. sent postpaid.

PRICES SUBJECT TO CHANGE.

**Pole String Beans** (GREEN AND WAX POD)  
CULTURE—Same as Pole Lima.

**M.-S. Golden Cluster Wax**—Deep yellow flat pods, often 8 inches long. Heavy yielder, bearing in large clusters. **Pkt. 10c; ½ pt. 20c; pt. 35c; qt. 60c; ½ pk. \$1.75; 1 peck \$3.25.**

**M.-S. Kentucky Wonder Wax**—Same as the above Kentucky Wonder with exception of beautiful yellow pods. **Price same as above.**

**Yard Long, or Snake Beans**—This is an ornamental as well as useful pole bean. Produces an abundance of dark green foliage and stringless green pods, often measuring from two to three feet long, which when cooked make a delicious dish. Seeds very small. **Pkt. 10c; oz. 25c.**

**Kentucky Wonder, or Old Homestead**—The most popular of the pole varieties, and it should be in every garden where beans are planted. It grows luxuriantly and bears for a long period. Pods are very long, very fleshy and deeply creased or saddle-backed, green in color and stringless. Seed light brown. **Pkt. 10c; ½ pt. 20c; 1 pt. 30c; qt. 50c; ½ pk. \$1.50; peck \$2.75.**

**Lazy Wife, or White Cherry**—Pods 6 to 8 inches long, entirely stringless, of a rich, buttery flavor when cooked as a snap bean; also a good, white shell-bean for winter. One of the very finest flavored. **Price same as above.**

**Horticultural or Pole Cherry**—Pods green, dashed with red when beans are matured. Very showy. **Price same as above.**

**English, or Broad Windsor Beans**

CULTURE—Same as Bush Limas, only plant thinner. A bean similar to Lima Beans, but a different flavor and larger. Should be planted early, March or April, as they are very hardy. **Pkt. 10c; ½ pt. 20c; 1 pt. 35c; 1 qt. 50c; 1 peck \$3.00.**  
We furnish 10c packages of all Beans.

**Bush Lima Beans** 1 qt. to 100 feet of drill.

CULTURE—Plant in rows two feet apart, and about one foot apart in the rows.

**M.-S. Enormous Bush Lima Beans**—As the name implies, these are truly enormous, bearing in abundance, large pods which are filled with delicious large beans. **Pkt. 10c; ½ pt. 25c; pt. 40c; qt. 75c; ½ peck \$2.50; peck \$4.50; bus. \$17.00.**

**Fordhook Bush Lima**—Beans large, round, thick, green and of delicious flavor, bearing in clusters of from 4 to 8 averaging 4 large beans to the pod. **Price same as above.**

**Burpees Improved Bush Lima**. Bears an abundance of thick kidney-shaped beans. **Price same as above.**

**Burpee's Bush Lima**—Pods abundantly and well filled with handsome flat beans. **Pkt. 10c; ½ pt. 20c; pt. 35c; qt. 60c; ½ pk. \$2.00; peck \$3.75; bus. \$14.00.**

**Henderson's Dwarf Lima**—Beans are small but their flavor is excellent. **Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ peck \$1.75; 1 peck \$3.25; bus. \$12.00.**



M.-S. Strain Detroit Dark Red Beet.

(German—Rote  
Rueben.  
French—Bette)

One ounce of seed  
sows 60 ft. of drill;  
5 lbs. will sow an  
acre in drills.

CULTURE—The soil best suited to the culture of the beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early sow in hot-beds and transplant; but for main crop sow in the Spring as soon as ground becomes fit to work, in drills 18 ins. apart and 2 inches deep. For winter use sow as late as July. When the plants have attained 3 or 4 inches in height thin out so that they stand 5 to 6 inches apart. Keep free from weeds. Before freezing weather sets in the roots may be stored

**Pole Lima Beans**

CULTURE—These require pole 8 to 10 feet long. The beans should be planted in May if the season is suitable. Set poles four feet apart each way, and plant 4 to 6 beans, about 1 inch deep, around each pole. Thin out to three plants to a pole, if the soil is rich; pinch off the ends of plants when they overrun the top of the poles to effect a more perfect growth below. Lima Beans for early use may be grown in frames and transplanted. 1 quart to 100 poles.

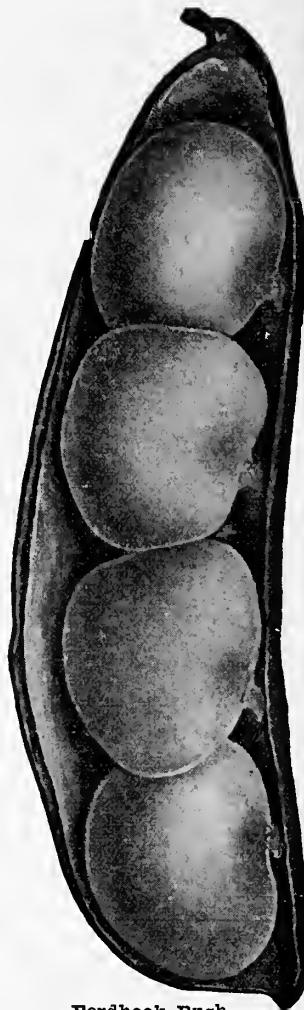
**Early Leviathan**—The earliest large pole lima; very productive. **Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ peck \$1.75; peck \$3.25; bus. \$12.00.**

**King of the Garden**—Vigorous grower, bearing large pods, 5 to 8 inches long. Beans large and of rich flavor. **Price same as above.**

**Sieva or Small White Lima**—(Butter Bean.) Early and productive, a great drought resister, smaller than regular limas, but juicy and of fine flavor. **Price same as above.**

**M.-S. Giant-Podded**—Is the largest of all Pole Limas. The pods measure from 7 to 8½ inches in length with a width of 1½ to nearly 2 inches. The beans are extra large. They are invariably of superb flavor. The vines easily attain a height of from 10 to 12 feet. The pods are produced in clusters of from 4 to 8 until killed by frost. **Pkt. 10c; ½ pt. 25c; 1 pt. 40c; 1 qt. 75c; ½ peck \$2.25; 1 peck \$4.00; bus. \$15.00.**

**Dreer's Improved Challenger, or Potato Lima**—Beans round and thick, of delicious flavor, easy to shell, immense cropper. **Price same as above.**

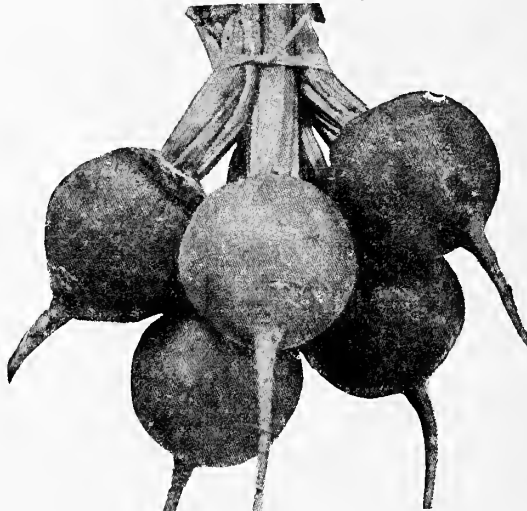


Fordhook Bush.

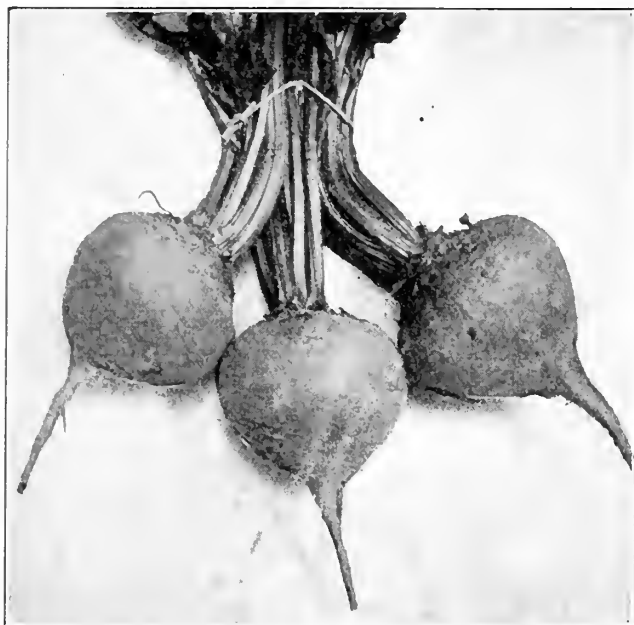
**TABLE BEETS**

in cellars or pits, same as Potatoes; dry earth thrown over them before the straw and earth covering is put on insures their keeping over winter. Be careful not to bruise them in handling.

**M.-S. Strain Detroit Dark Red Beet**—Like the Detroit Dark Red, but runs more uniform in shape and color, positively the best beet for the truck farmer, as they always bring top-notch prices on the wholesale market, or at the packers. **Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**



Early Wonder Beet.



M.-S. Early Marvelous Beet.

### "M.-S." EARLY MARVELOUS BEET

The Ideal Beet for the market or home garden; in shape it is nearly a perfect globe, about 10 inches around with smooth skin free from rootlets; the flesh is a rich blood red nicely ringed, never stringy, and always tender and sweet; excellent for canning. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Extra Early Flat Egyptian**—Maturing in an incredibly short time. Bulbs half globular, or flattened at the poles; roots very slim, skin smooth, leaves red and green, flesh quite dark. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**Crosby's Improved Egyptian**—Very desirable. Thicker in body than the Egyptian, small necked and dark fleshed. Fine for early market. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.

**Extra Early Eclipse**—Maturing in an incredibly short time, round-shape beet. Small top, and of excellent table quality. Makes an attractive seller in market. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.

**Early Wonder**—A very early dark red beet similar to Crosby's Egyptian in shape. Its earliness and deep color make it a favorite with the market gardeners in many sections of the country. It is sweet and tender and a good variety for the home garden. The tap roots are small and the roots are of a

desirable shape for bunching. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**SWISS CHARD or SPINACH BEET**—See page 23.

**USE STIMUGERM INNOCULATION ON ALL BEANS**—See page 29.



Extra Early Eclipse Beet.

**Detroit Dark Red Beet**—A blood red, early, turnip-shaped variety. Has small upright top; fine round shape. Skin and flesh dark blood red. Very tender and sweet. Remarkably uniform in growth and a particularly desirable sort for truckers and market gardeners. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

**Long Smooth Dark Blood**—This variety has long, slender roots. The beets are seldom more than two inches through. Matures rather late, but is an excellent keeper. The flesh is dark red and quality sweet and tender. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**BEET PLANTS**—See page 5.

**Crimson Globe**—A second early variety, does not grow large and coarse, the matured beets being medium in size and good shape. The flesh and skin are both very dark and quality fine, being sweet and tender. The tops are small and dark in color. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**SWISS CHARD**—See page 23.

### Cow Beets

#### MANGEL-WURZEL

(German—Runkelrueben) (French—Betterave)

Used for feeding cattle. Sow five pounds per acre.

**CULTURE**—Sow in April and May in thoroughly plowed, well-manured soil, in drills 2 inches deep and about 18 inches apart. Thin out to 12 ins. and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel-Wurzel.

**Golden Tankard**—The best long yellow mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other large sorts. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c; 5 lbs. \$2.75.

**Jumbo Mangel**—Immense, long, red, very fine quality. Price same as above.

**Gate Post Mangel**—Large, yellow, excellent sort. Price same as above.

**Mammoth Long Red**—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing 20 to 40 lbs. The best long red mangel and very valuable for stock feeding. Price same as above.



Gate Post Mangel Beet.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.**M.-S. CHOICE CABBAGE SEED**

(GERMAN—KOPFKOHL. FRENCH—CHOU)

One ounce will produce about 2,500 plants; one-quarter pound for transplanting an acre.

**Culture**—Sow seeds in January or February in hotbeds, and transplant latter part of April or early in May to open ground, or an early sowing in open ground can be made as soon as weather will permit. Set the plants in rows two feet apart, and 12 to 18 inches apart in the row. For second early sow in April and transplant in May, or sow in May and transplant in July, setting plants in rows three feet apart and two feet in rows. Never plant in the same ground two years in succession.

**Early Varieties****Golden Acre Cabbage, Earliest Flat.**

**M.-S. Golden Acre**—This is an extra early strain of Copenhagen Market maturing about ten days earlier. It will mature heads in eighty days from time of sowing, measuring nine inches in diameter, with a uniform weight of five pounds. Height of stalk is 2 ins. and entire plant consists of thirteen leaves which allows close planting. **Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.50; 1 lb. \$5.00.**

**COPENHAGEN MARKET**—A valuable new early cabbage from Denmark, producing a large globe-shaped solid head, which comes into market along with Charleston Wakefield. Our seed comes direct from the originator, makes few loose leaves, it is a vigorous grower and an excellent keeper. **Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.**

**New Early**—The largest of the early cabbage. Head roundish flat, remarkably solid. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Early Flat Dutch**—A dwarf-growing type, principally used for early summer. **Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Early Jersey Wakefield**—The finest oblong-shaped cabbage in existence. The head is solid, there being very few outside leaves. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Extra Early Jersey Wakefield**—Our strain of this excellent extra early, pointed head sort is without a doubt the earliest cabbage of the day. Heads are smaller than Early Jersey Wakefield, but are solid and extremely uniform in both green color and size. **Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Extra Early Jersey Wakefield.**

**Large Charleston Wakefield**—Similar to Early Jersey, but the heads are more blunt, equally as solid, white almost twice the size, but matures one week later. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

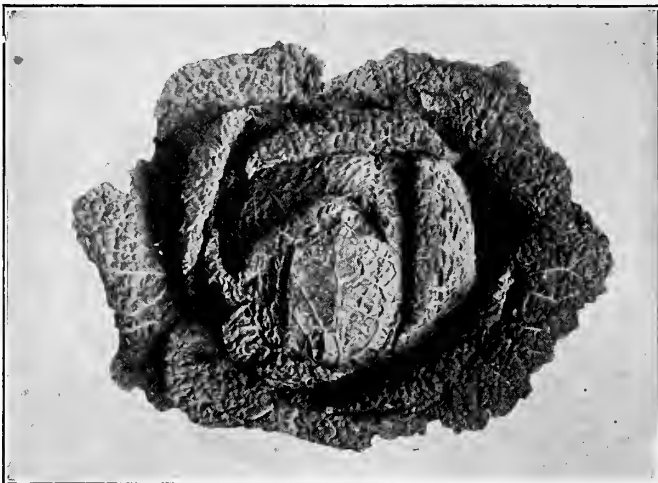
**Early York**—Resembles the Early Wakefield. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Early Winnigstadt**—Resembles Charleston Wakefield. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Second Early Varieties**

**Early Drumhead**—A large solid roundish flat-headed sort with few outer leaves. One of the best sorts to follow the Large Charleston Wakefield. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Succession**—A very popular sort with the market gardeners. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**M.-S. PERFECTION DRUMHEAD SAVOY CABBAGE**  
(German—Wirsing Kohl. French—Choufrise.)**Late, or Winter Varieties**

**American Drumhead Savoy**—A beautifully crimped-leaved sort, color a deep glossy green. The head is almost round. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Red Dutch Drumhead**—A red variety, used extensively for pickling. **Pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.**

**All Seasons (Vandergaw)**—A very large head, round and solid. It is valuable for Summer or Winter use. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Danish Ballhead**—An elegant medium late variety. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 85c; 1 lb. \$3.00.**

**Late Flat Dutch**—Improved Strain. This has been selected especially for our trade, and seed was taken from the finest type of heads which were selected for solidity and uniformity. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.**

**Chinese Celery Cabbage**

**Pe-Tsai**—Improved Chinese Cabbage. The market appearance of this cabbage in quantity the past few years has created a widespread demand for the seed. It is very easily grown and does well in nearly all parts of the country. It should be grown like a late cabbage, planting in July (turnip planting time), as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedlings thinned two or three times. The full-grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or as a salad, or cooked. Boiled, minced and seasoned with butter, it is especially delectable. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.75.**

**Cardoon**

Grown for its stalks which make a delicious vegetable. **Pkt. 10c; oz. 50c.**



## Carrot

(German—Moehre oder Gelbe Reube. French—Carotte)  
One ounce to 100 feet of row. 2 or 3 lbs. to acre.

**Culture**—A light, loamy soil that has been well manured the previous year is preferred for growing carrots, although good crops may be obtained from ordinary garden soil. For early use seed may be sown in hotbeds from January until March, and in the open ground as soon as the weather becomes warm and settled, usually in April. Sow seed one-half inch deep in rows 15 inches apart, and later thin to five inches in the row. Keep soil between the rows well hoed and free from weeds. From July 1st to 15th sow for Winter crops.



M.S. Southern Pride Carrot.

**RED CORED CHANTENAY**—A little more stump rooted and heavy shouldered than its famous parent Chantenay. The color is a deep orange-red and the core is practically the same color. It is of delicate flavor. Tops not too long, making it a desirable bunching carrot. **Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.75.**

**M.S. SOUTHERN PRIDE**—An ideal medium early stump-rooted Carrot; smooth and uniform in shape, averaging five inches in length, with thick, heavy shoulders, rather large tops and deep orange color, almost coreless and of fine flavor. Positively the best carrot for home garden or market. Advisable for truckers. **Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**M.S. Strain Danvers Carrot**—Like the above, but runs more uniform in shape and darker in color. Advisable for truckers. Price same as above.

**Parisian Forcing**—Extremely early, of small size, but very sweet, tender and beautiful orange-red color. Same price as above.

**Chantenay**—Top medium sized, neck small, roots tapering slightly but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender. **Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 90c.**

**Pride of Market Carrot**—Similar to the above. Same price.

**Danvers, or Half-Long Orange**—Owing to its enormous yield, this variety is the best and most profitable for main crop, also desirable for feeding cattle. It is somewhat longer than Chantenay. Price same as above.

**Oxheart or Guerande**—A short thick carrot not exceeding four inches in length and about the same in width which does quite well on hard, heavy soils where the longer varieties are useless. Price same as above.

## Georgia Collards

Culture like Cabbage. The lower leaves are pulled off and used same as Cabbage Sprouts and Kale; will be found very delicious if you have never tried it; give it a place in your garden this coming season. **Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. 75c.**

## Corn Salad

(German—Acker Lattig.  
French—Mache)

**Culture**—Sow in Spring, in drills one foot apart; it will mature in six to eight weeks. For Winter and early Spring use, sow in

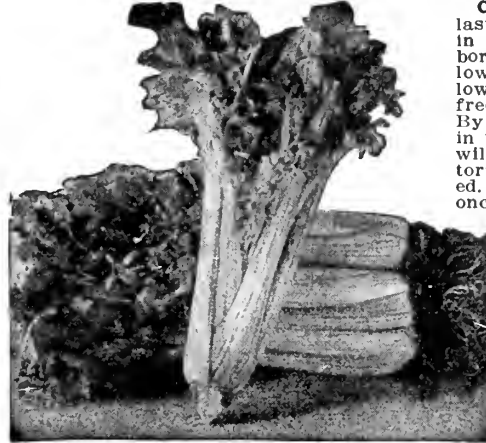
drills in August and September. Three ounces of seed to 100 feet of drill. Will do well if sown in Spring.

**Large Leaved**—Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

## Celery

(German—Sellerie. French—Celeri)

One ounce will produce about 2,000 plants.  
We pay postage on pkts., ozs., ¼ lbs. and 1 lbs.



Golden Phenomenal.

**Culture**—Sow the last of March or early in April, in an open border, in rich, mellow ground, in shallow drills, watering freely in dry weather. By rolling or pressing in the seed the result will be more satisfactory than when covered. Cut the tops off once or twice before planting out, to make them stocky. When the plants are five or six inches high transplant the dwarf varieties 3 feet, and the taller sorts 4 feet between the rows; plant 6 inches apart in the rows. Cultivate well, and when large enough, blanch by earthing up.

### GOLDEN PHENOMENAL—A New Celery.

The general characteristics of this variety are those of the Golden Plume, but is decidedly taller and the stalks are much longer to the joint. The season for planting and maturity is the same as the Golden Plume. The plants are very heavy and compact and full hearted. The stems are exceptionally broad and thick, brittle and free from strings. It is of a very fine flavor and excellent quality throughout. **Pkts. 25c and 50c; ½ oz. \$1.75; 1 oz. \$3.00.**

**M.S. Golden Plume**—Resembles Golden Self Blanching, but is larger and ranker in growth, more plainly ribbed, blanches quicker, matures earlier, does not blight and is just as crisp and has the same flavor. **Pkt. 10c; ½ oz. 40c; 1 oz. 75c; ¼ lb. \$2.75; 1 lb. \$10.00.**

**Easy Blanching**—For early use; preferred by many to all other sorts; as self-blanching as White Plume, and simply needs a slight earthing-up. **Pkt. 10c and 25c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$3.75.**

**French Golden Self-Blanching**—(Pure Stock). **Pkt. 10c; ½ oz. 35c; 1 oz. 60c; ¼ lb. \$1.75; 1 lb. \$6.00.**

**White Plume**—Unsurpassed for Fall and early Winter use, requiring very little earthing-up to blanch it. **Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.75.**

**Giant Pascal**—The stalks are very large, thick, solid, crisp and of a rich nutty flavor, good keeper. **Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.**

**M.S. MONARCH**—This variety is a decided acquisition in green Celery, producing large stalks, and magnificent bright golden yellow heart. The stalks are very solid, brittle and of most delicious flavor, and entirely free from stringiness. It is a remarkably good keeper and presents a handsome appearance when ready for the table. Price same as above.

**Golden Heart**—Largely used, always giving satisfaction; a showy sort; solid, of fine flavor and a good keeper. Price same as above.

**Winter Queen**—This variety grows a very thick, solid and heavy stalk, and has a large heart. It is a close, compact grower, and when blanched is a creamy-white color. Price same as above.

**Pink Plume**—The stalks when blanched are a beautiful rose-pink. **Pkt. 10c; per ½ oz. 20c; oz. 35c.**

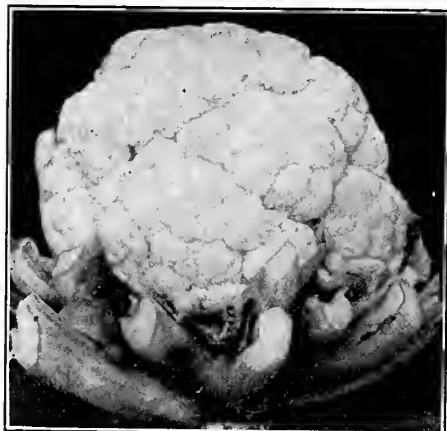
**CELERY PLANTS, SEE PAGE 5.**

**Giant Prague Celeriac**—This is unquestionably the largest and best Celeriac in existence, very large, almost globe-shaped, smooth, with only a few roots at the bottom. Flavor is excellent. **Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.**



Giant Prague Celeriac.

Pkts., ozs., ¼ lbs. and 1 lb. postpaid.



M.-S. Early Snowball Cauliflower.

## Cauliflower

(German—  
Blumenkohl.  
French—  
Chou-Fleur)One ounce of seed  
for 1,500 plants.

**Culture**—When grown to perfection this is a most delicious vegetable, and well repays generous treatment in cultivation. With a deep rich soil, and an abundance of moisture, which in dry seasons must be applied artificially, Cauliflower can be grown well. The cultivation is similar to that of Cabbage. For early Fall crops, sow in May and transplant in June, in rows of four feet

apart, setting the plants two feet apart in the row; water frequently if the ground is dry. Frequent hoeing and a liberal supply of rich, liquid manure, to keep up a continuous and rapid growth, will produce splendid heads of the most delicate flavor. It facilitates blanching if the leaves are gathered loosely together and tied over the top of the head to protect it from the sun. Cut before the flowers begin to open. Sow as late as June 20 for late crops, in beds or in hills, covering one-half inch deep.

**M.-S. EARLY SNOWBALL**—An extremely early dwarf variety, producing magnificent white heads of fine quality. Well adapted to hotbed culture and outdoor. Pkt. 10c, 25c and 50c; oz. \$1.50; ¼ lb. \$5.00.

**Dry Weather or Danish Giant**—The great drought-resisting variety; the heads are large, snow white and are protected with a liberal growth of foliage. This is the ideal variety to plant for summer use if you want to be sure of cauliflower at that season. Pkt. 10c, 25c, 50c; \$1.50 per oz.; ¼ lb. \$5.00.

**Select Early Dwarf Erfurt**—Of highest excellence, and for field culture not much surpassed by any type of newer name. Some so-called new varieties appear to be identical with Select Erfurt. Pkt. 10c, 25c and 50c; oz. \$1.50; ¼ lb. \$5.00.

**Veitch's Autumn Giant**—A distinct and valuable late variety; heads large and fine, well protected by foliage. Pkt. 10c; oz. 75c.

CAULIFLOWER PLANTS, PAGE 5.

## SWEET, or SUGAR CORN

(German—Zuckermals. French—Mais)

One quart will plant 200 hills; eight quarts in hills to acre.

Sugar Corn varies in weight according to variety. We have decided to list 44 lbs. as a bushel, except Adams and Red Cob or 90 Day, which weighs 56 lbs. to bushel.

**Culture**—The Sweet or Sugar varieties, being liable to rot in cold or wet ground, should not be planted before May, or until the ground has become warm; for a succession, continue planting every two weeks, until the middle of July, in rich, well-manured ground, in hills three feet apart each way, covering about half an inch, and thin out to three plants to a hill. Extra early varieties can be planted 18 inches in the row and 2½ feet between the rows. The field varieties should be planted four feet apart each way, leaving three plants to a hill.

**Extra Early Adams**—Height of stalk three to four feet, ears set within six inches of ground. Not a sugar corn, but a decided acquisition so early in the season. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ pk. 75c; pk. \$1.50; bus. \$5.50.

**Early Adams**—Similar to Extra Early Adams; larger, but not so early. Price same as above.

**Trucker's Favorite**—For a second early to follow Early Adams this is unquestionably one of the best; or for planting late to mature quickly it is equally valuable. It is a white corn, with good depth of grain, tender and sweet, and a most desirable size for roasting ears. Besides being a fine garden corn, it is a splendid field corn to follow potatoes and other early crops. The ears are large and well filled. A big advantage in growing Trucker's Favorite is that should you not use it all for roasting ears it will make large ears for making meal or feeding. It makes the largest ear of any early garden corn, averaging over 8 inches long. A fine combination of earliness and size; hardy and can be planted early. Price same as above.

**No. 1 Golden Bantam**—Extremely early. A true sugar corn. The grain when ripe is a bright golden-yellow, the flavor is exceptionally rich and sugary. Produces from two to three good ears to the stalk. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ pk. \$1.50; pk. \$2.50; bus. \$8.00.

**No. 2 Whipple's Early White**—This is an extra early variety with the deep grain of the Evergreen type. It matures in 65 days. The stalks are 5 to 6 feet high of vigorous growth; the ears are produced 1½ ft. from the ground, often two to the stalk and are 8 inches long, rather "blocky" in form, 16 to 18-rowed, filled to the end with rather narrow, deep wedge-shape grains of pearly whiteness and high sugar content. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ pk. \$1.50; pk. \$2.75; bus. \$9.50.

**No. 3 M.-S. SNOW WHITE EVERGREEN SUGAR CORN**—It produces large uniform ears, which are well filled to the top with beautiful white kernels; it is 10 to 12 days earlier than Stowell's

Evergreen. Splendid sort for market and home garden; keeps well after being cut. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ pk. \$1.75; pk. \$3.00; bus. \$10.50.

**No. 4 Country Gentleman or Shoe Peg**—A short-stalked, productive sort. Ears large for so small a stalk; grain narrow and very deep; excellent quality. Price same as above.

**No. 5 Stowell's Evergreen**—A favorite late corn for home use, market and canning. Aside from the size of the ears, which are large and well filled, its strong point is that it remains in the green state for a long time. Grains are deep and sugary. Price same as above.

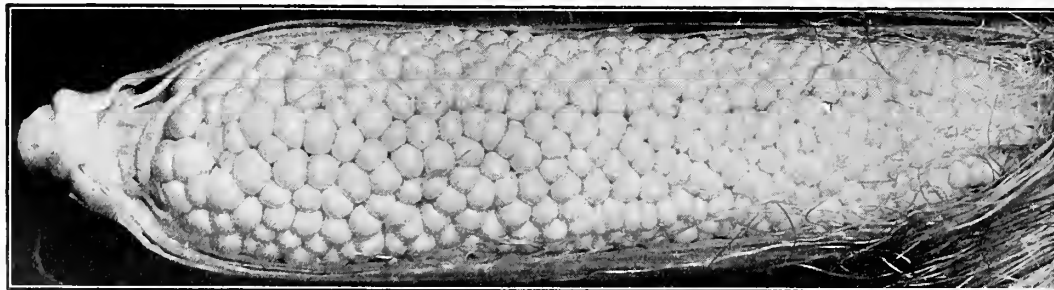
**Howling Mob**—Another new early Sugar Corn, with fine, large ears, excellent for truckers or the home gardener. Pkt. 10c; ½ pt. 20c; 1 pt. 30c; qt. 50c; ½ pk. \$1.50; pk. \$2.75; bus. \$9.50.

**Bardens Wonder Bantam**—A yellow sugar corn with all that the name implies, making ears up to 9½ inches long; deliciously sweet and of unsurpassed flavor. Matures only about a week later than Golden Bantam. A strong grower and very productive. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ pk. \$1.75 pk. \$3.00; bus. \$10.50.

**Sunshine**—A really choice extra-early yellow Sweet Corn, growing 4½ to 5½ feet tall, with many stalks carrying two ears. The ears are 7 inches long and 1½ inches thick at the butt end. The yellow broad kernels are exceedingly sweet. Price as above.

**Black Mexican**—An old favorite, being very tender and sweet. Price same as above.

**THE VANGUARD**—Days to maturity, 65-70. We offer The Vanguard as the most profitable early Sweet Corn under cultivation. This statement is made five years after its introduction, and we still maintain that our claim for it is so far unchallenged by any variety in its class. Vanguard was developed by Mr. A. L. Ritchie, a successful grower and breeder of Burlington County, New Jersey. Our stock is still grown in its home country. It has brought profit to the grower for two obvious reasons: It is the earliest large-eared Sweet Corn we know of, and it has excellent table quality. Comparative tests have proved it to be at least seven days earlier than Howling Mob, and each year we are developing a heavier yielding and more uniform strain. It will mature the same week as Early Adams, but the public long ago tired of eating Horse Corn. Vanguard will develop an ear in 65 days that is at least 8 inches long. It is well named for it leads the whole procession to market. It takes a large part of the early money. Pkt. 10c; ½ pt. 20c; pint 30c; quart 50c; ½ pk. \$1.50; 1 pk. \$2.50; bushel \$8.50.



M.-S. Snow White Evergreen Sugar Corn.



**CORN SEED** is quickly and easily disinfected against Corn root-rot by dusting with Semesan Jr. at the rate of 3 ozs. to the bushel of seed.



Insure Your Seed Corn Against Attacks of Crows and Pheasants by Using "CRO-TOX"—  
It Pays to Use the Best

Try a small can of "Cro-Tox" and be convinced of its merit. It will pay for itself many times over. Enjoy the comfort of planting your corn with the assurance that it will not have to be replanted.

Large size can treats (2 bushels of corn (postpaid) ..... \$1.50  
Small size can treats 1 bushel of corn (postpaid) ..... 1.00



Maryland Yellow Dent.

Prices on Field Corn do not include postage. For 1 qt. add 8c, 2 qts. 10c, peck 21c, bushel 57c.

**Collier's Success**—The ears are of immense size, 12 to 14 inches long, 8 to 10 inches in circumference, carrying 20 to 24 uniform rows of large yellow kernels, well developed over tip and butt. It is a luxuriant grower, about 12 to 15 feet high. Matures in 100 days. Makes a splendid ensilage corn, making two ears on many stalks. Qt. 25c; ¼ pk. 40c; peck \$1.00; bu. \$3.50.

**Yellow Leaming**—We have a very choice strain of this early, drought-resisting variety. It makes a fair-size ear, with deep, well-shaped grains, and will mature in 100 days. Qt. 25c; ¼ pk. 40c; pk. \$1.00; bu. \$3.50.

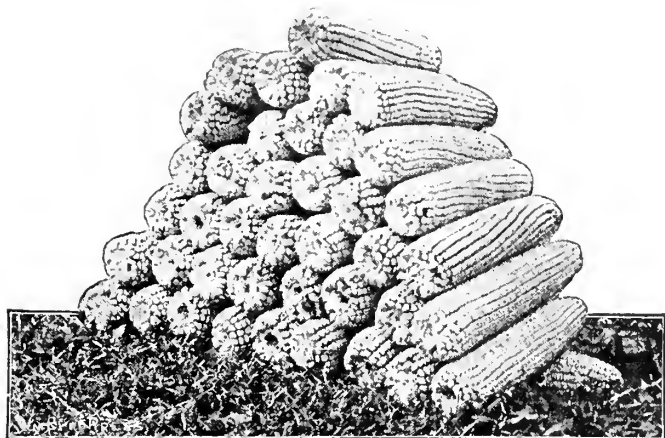
**Golden Beauty**—Large, broad-grained, yellow corn. Ears are well filled out. A heavy yielder. Qt. 25c; ¼ pk. 40c; pk. \$1.00; bu. \$3.50.



Gator-Hide Mulch Paper hastens seed germination and promotes growth. Note the better stand and increased size of the mulched Corn as compared with the unmulched. Both planted at the same time.

8 Quarts to the Acre.  
Prices Subject to Change Without Notice.

## FIELD CORN



Boone County White.

**Maryland Yellow Dent**—Large ear; moderate size stalk; withstands drought well. Qt. 25c; ¼ pk. 40c; pk. \$1.00; bu. \$3.50.

**Boone County White**—Recommended by the Agricultural Experimental Stations. A fine, large deep-grained variety, originated by one of the best corn breeders. Qt. 25c; ¼ pk. 40c; peck \$1.00; bu. \$3.50.

**Collier's Excelsior**—White corn, especially adapted for hominy corn on account of its flintiness. Great producer on poor soil. Qt. 25c; ¼ pk. 40c; peck \$1.00; bu. \$3.50.

**Early Eureka Ensilage Corn**—Very prolific, tall grower. Qt. 25c; ¼ pk. 40c; peck \$1.25; bu. \$4.50.

### Use Pyrox to Get Earlier and Better Germination

Here's the way to get an earlier stand of corn! Plant your seed at the usual time, but before planting... give the seed a coat of Pyrox. The results will astonish you! For Pyrox has certain ingredients that make the seed sprout quicker, and help to produce an earlier crop. Pyrox also increases the percentage of seed germination. Actual tests have shown 94 out of 100 seeds germinate when Pyrox is used. But when Pyrox is not used, the germination has been only 70 out of 100.

The cost of Pyrox is very slight! In fact, it costs less than 25 cents per acre to treat your corn! A very wise investment when you consider it means a better crop and no trouble from pests!

This spring, try the Pyrox treatment on your corn. You'll find it a big help in producing a better and earlier crop.

### Use Pyrox to Protect Corn Seed from Pests

Pyrox has a very nasty taste. Crows and other pests hate it. That's why they stay away from the hills where Pyrox has been used.

"The crows that fly this way," says J. L. T. Shaw of Bear Hill Farm, "have no use for corn that has been coated with Pyrox. We have found it a safe protection for the seed from the birds, and also from the destructive worms in the soil. It is applied easily, the corn works perfectly in the planter, and the Pyrox seems to help along germination."

Mr. R. J. Fiske, of Lunenburg, conducted an experiment to determine the value of treating seed corn with Pyrox. He writes as follows:

"The corn which I treated with Pyrox this season had nearly a perfect stand, 98 percent to be exact, and as far as I could observe no depredations by crows. The untreated corn had only about a 10 per cent stand, and of the 90 per cent which did not grow I should say that about 80 per cent was due to crow injury, and about 10 per cent to lack of germination."

The crow is a wise bird... it takes more than a scarecrow to keep him away. Use Pyrox! Try it on your seed this year... then watch the results.

**JAPANESE HULLESS POP CORN**—The best pop corn known. Pops large, flaky and white as snow. Lb. 15c.

**Wire Corn Poppers**, 25c, postpaid 35c.

If Field Seeds are wanted by parcel post in first and second zone, include 7c for first lb. and 1c for each lb. over, for instance, for 4 lbs. send 10c.



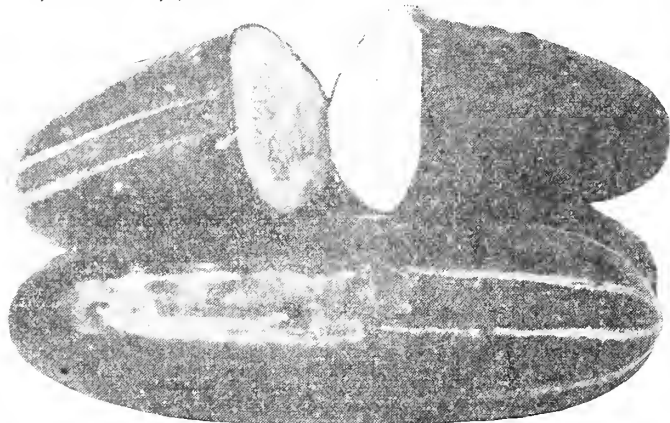
## Cucumber

(German—Gurke. French—Concombre)

One ounce will plant fifty hills; two pounds, one acre.

**Culture**—For very early Cucumbers, sow the first of April in a hotbed, upon pieces of sod or in small pots, so that they can be readily transplanted to the open ground (in rich soil) when danger of frost is over. For general crop plant, if the weather has become settled and warm, in hills about four feet apart each way; thin out to four of the strongest plants to each hill. They succeed best in a warm, moist, rich, loamy soil. For succession sow until the middle of August.

**English Forcing Telegraph Cucumber**—These are ideal for growing outdoors as well as under glass. They produce enormous fruits, generally 18 to 24 inches long and 3 inches in diameter. They have a delicate flavor and possess very few seeds; for slicing, no other sorts can approach them. Pkt. of 12 seeds, 25c; 100 seeds, \$1.25.



Early Fortune Cucumbers.

**Early Fortune**—A great favorite with our Anne Arundel County farmers for its early maturity, productiveness, uniformity in large size, dark green color. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.25.

**Clark's Special**—An excellent shipping variety of uniform size and dark green color. Price same as above.

**Stay Green**—Another good shipper of uniform size and dark green color. Price same as above.

**New Klondike**—One of the best for shippers. Grows vigorous vines, fruits early and abundantly. Dark green in color, large size, and of fine flavor. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.25.

**Boston Pickling**—A short fairly smooth, symmetrical cucumber and one of the most popular in use. It is extremely early and productive. Size 6 x 2½ ins. Edible in 58 days. Weight 1½ lbs. Pkg. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

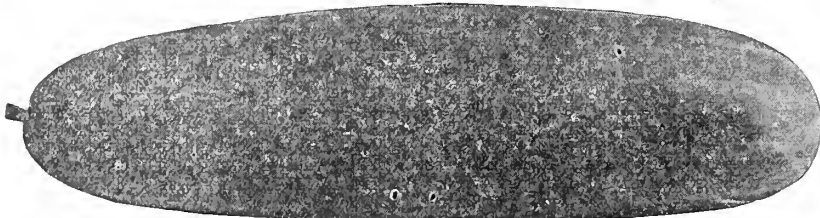
**Improved Early White Spine**—Old standard favorite. Price same as above.

**Arlington White Spine**—Another standard sort. Price same as above.

**Improved Long Green**—Long and crisp; a popular and reliable variety for pickles. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**Longfellow**—(New.) An excellent long, slender, dark green variety equally desirable for greenhouse forcing or outdoor culture. An ideal type for the private garden or as a "straight pack" variety for shipment to market. 12 to 14 inches long by 2½ inches in diameter. W. S. Pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$1.75.

**Japanese Climbing**—Distinct from other varieties, being a real climber. Very prolific of fruit. A valuable, interesting novelty. Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

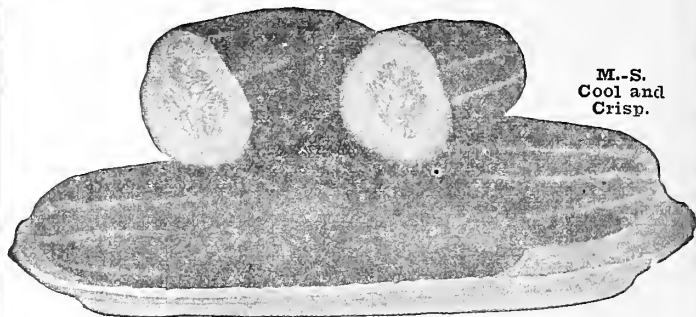


Longfellow Cucumber.

**Jersey Pickle**—Productive and said to "green" better than any other variety to "hold color." Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

**Small Gherkin, or Burr**—Used only for pickling while young and tender. Pkt. 10c; oz. 25c.

**Lemon Cucumber**—A very productive variety with round or slightly oval fruits of light creamy yellow color; of distinctive flavor and desirable quality either for slicing or pickling. The fruits are ready for slicing when just starting to turn yellow. For pickling they may be used either green or ripe. Pkt. 10c.



M.S.  
Cool and  
Crisp.

**M.S. COOL AND CRISP**—Ideal for home and market gardening. Extra early and very prolific, long straight, slender and very dark green; good either for pickling or slicing. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

## Cress : Chervil

(German—Kresse) (German—Kerbel)

**Water Cress**—Sow early in spring near pond or running water; when established will last for years. Pkt. 10c; oz. 50c.

**Land Cress or Pepper Grass**—Sow in early spring in rows two feet apart, and repeat often as it runs to seed very quickly. Pkt. 10c; oz. 15c; ¼ lb. 30c.

**Chervil**—Sow like the above, used as a salad seasoner. Pkt. 10c; oz. 25c.

## Dandelion

(French—Pissenlit. German—Loewenzahn.)

One ounce to 100 feet of row.

**Culture**—Plants usually come up small and feebly. Sow seed in good clean loam, in drills 1 foot apart, and thin or transplant to 10 or 12 inches apart in the rows. May be blanched by covering with leaves or other loose litter, or by placing a large inverted flower pot over each plant.

**Improved Thick-Leaved**—An improved variety. Pkt. 20c; oz. \$1.00; ¼ lb. \$3.00.

**Common**—Yields an abundant supply of large succulent leaves. Pkt. 10c; oz. 50c; ¼ lb. \$1.50.

## Eggplant

(German—Eierpflanze. French—Aubergine)

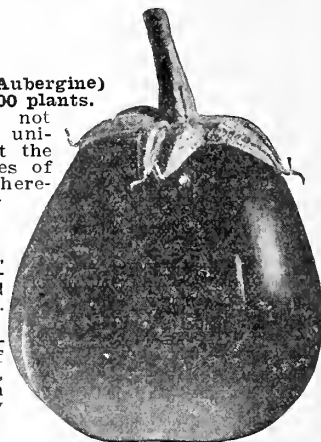
One ounce will produce about 1,000 plants.

**Culture**—Eggplant seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore repeated sowings are sometimes necessary.

**M.S. Ebony King**—As its name implies it is almost black, large size, perfect shape, thornless, great drought resister and splendid bearer. Pkt. 10c; ½ oz. 25c; 1 oz. 50c; ¼ lb. \$1.75.

**New York Improved Purple**—The leading market variety; of large size, skin deep purple, smooth, free of thorns; flesh white, of excellent quality; very productive. Pkt. 10c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$5.00.

**Black Beauty**—The earliest large variety; color, rich, dark purple. Pkt. 10c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$5.00.



M.S. Ebony King.

EGGPLANT PLANTS, SEE PAGE 5.

## Whitloof Chicory, or French Endive

(German—Succory. French—Chicoree.)

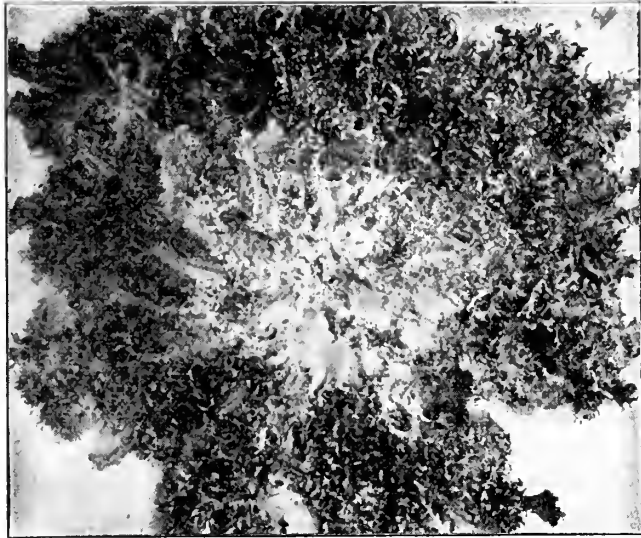
**Whitloof Chicory, or French Endive**—Known in restaurants as French Endive. We want to get our customers interested in this delicious vegetable, and feel confident that after it has once been tried it will become quite as popular as Swiss Chard, which was only planted very sparingly a few years ago. Every garden should have a row of Whitloof Chicory and we feel sure that every amateur or experienced gardener will be pleased with the results. Whitloof is eaten raw or as a salad, and is also sometimes cooked like ordinary Endive. Pkt. 10c; oz. 25c; ¼ lb. 50c; lb. \$1.50.

**Large Rooted Chicory**—The roots are dried and ground and used for flavoring or to substitute coffee. It can also be served like salsify. Pkt. 10c; oz. 25c; ¼ lb. 50c; lb. \$1.50.



## Endive (German—Endivie. French—Endive)

**Culture**—Sow in June, July and August; cover lightly; when up thin out to eight inches apart, and water well afterwards, if dry. When the leaves are 6 to 8 inches long, blanch by gathering in the hand and tying together near the top with yarn or bast. This must be done when quite dry or they will rot. At the approach of Winter, take up carefully, with a ball of earth to each plant, and place close together in frame or cellar for use. They must be kept dry and have plenty of air.



Green Curled Endive.

**Green Curled**—Tender and crisp. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**White Curled**—Self-blanching. Very tender when young; blanches readily. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**Broad Leaved Batavian (Escarrole)**—This variety is chiefly used in soups and stews; it requires to be tied up for blanching. Pkt. 10c; 1 oz. 15c; ¼ lb. 40c; lb. 1.25.

## Herbs (German—Krauter. French—Herbes)

**Culture**—Herbs delight in a rich, mellow soil. Sow seeds early in Spring in shallow drills, one foot apart; when up a few inches thin out to proper distances, or transplant. They should be cut on a dry day just before they come into full blossom, tied in bunches and hung up or spread thinly where they can dry quickly.

**Anise**—Pkt. 10c.  
**Balm**—Pkt. 10c.  
**Catnip**—Pkt. 10c.  
**Pennyroyal**—Pkt. 10c.  
**Peppermint for Flavoring**—Pkt. 10c.

**Borage**—Pkt. 10c.  
**Caraway**—Seeds used to flavor bread. Pkt. 10c; oz. 25c.

**Coriander**—Pkt. 10c.  
**Dill**—The seeds are used as a condiment and for pickling. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 75c.

**Fennel, Sweet**—A hardy perennial, indigenous to Southern Europe. The leaves are extensively used in sauces for flavoring. Sometimes eaten raw. Pkt. 10c; oz. 25c; ¼ lb. 75c.

**Morehound**—For medicinal purposes and flavoring. Pkt. 10c

**Lavender**—For flavoring and perfumery. Pkt. 10c.

**Rosemary**—Leaves used for seasoning. Pkt. 10c.

**Rue**—Pkt. 10c.

**Sage**—For seasoning and dressing. Pkt. 10c; oz. 40c.  
**Summer Savory**—Used for flavoring. Pkt. 10c; oz. 25c.

**Sweet Basil**—For flavoring soups. Pkt. 10c; oz. 25c.

**Sweet Marjoram**—Leaves and ends of shoots used for seasoning. Pkt. 10c; oz. 40c.

**Saffron**—For medicinal and coloring purposes. Pkt. 10c.

**Thyme (Broad Leaf)**—For seasoning, also for making tea for nervous headache. Pkt. 10c; oz. 50c.

**Wormwood**—Pkt. 10c.

## Finocchio, or Florence Fennel

A delicious vegetable which should be more largely grown. It is extensively used in Italy as a salad, but is particularly palatable when served boiled, with a cream dressing. When the enlargement of leaf stalk, at base of stem, is about the size of a hens egg it should be earthed up so as to cover half of it, and in about ten days cutting for use may be commenced and continued as the plants increase in growth. The flavor is somewhat like celery, but it has a sweeter taste and delicate odor. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

## Kohl-Rabi

One ounce will sow 150 feet of drill.

This is a favorite vegetable in Europe, where it is extensively grown for table use. The bulb is formed above ground, and, if used when young and tender, makes a most delicate dish for the table.

**Earliest White Vienna**—Greenish white outside, with clear white flesh within. Smooth, short leaf. Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.75.

**Earliest Purple Vienna**—Same in every respect as the Earliest White Vienna, except in the outside color. Pkt. 10c; oz. 25c; ¼ lb. 75c.



Earliest White Vienna Kohl-Rabi.

## Kale, or Borecole (German—Krauskohl. French—Chou Vert)

One ounce sows a drill of about 100 feet. 2 to 3 lbs. to the acre.

**Culture**—Sow from May to June, and cultivate same as Cabbage. For early Spring use, sow in September, and protect during Winter. The Kales are more hearty than Cabbage, and make excellent greens for Spring and Winter use, and are improved by frost.

### BORECOLE PLANTS, SEE PAGE 5.

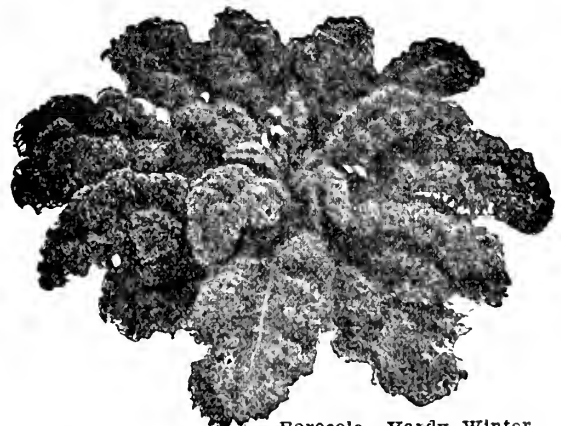
**M.-S. EMERALD ISLE KALE**—This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains. The closely curled, handsome leaves are most attractive. A fine exhibition plant of medium height. Very hardy. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**Dwarf German Kale**—Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

**Tall Scotch**—Best for Summer. Very spreading, nicely curled and hardy; frost improves it. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.

**New Imperial Extra Curled Long Standing**—The leaves are very crimp and of a dark green color. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

**Dwarf Green Curled Scotch, or Norfolk**—One of the most popular shipping sorts; very largely used in Norfolk trucking district. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.



Borecole—Hardy Winter.

**Borecole, Hardy Winter**—This variety is grown and treated like cabbage. The plant attains a height of 18 inches, with an abundance of beautiful light green leaves which are densely curled and crimped. Besides being very hardy it possesses the advantage of all other varieties in forcing a second crop of moss-curved leaves as soon as the first ones are gone. This new growth is of the finest quality, and is ready for market during the Winter and early Spring months, when it demands fancy prices. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.

**Spring Kale**—A hardy, quick-growing, smooth-leaved variety. Sow at intervals of ten days, so as always to have it young and tender. Pkt. 10c; ¼ lb. 15c; 1 lb. 35c.

We pay postage on pkts.,  
ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.

## M.-S. CHOICE STRAINS OF LETTUCE

French—Laitue.)  
(German—Salat.)

Two ounces of seed to 100 yards of row; one ounce for 2000 plants

**Culture**—Lettuce is now sown during most all seasons of the year. For outdoor use the seed can be sown in well-manured hotbeds in February and March. Transplant there or outdoors when the weather will permit, in rows about 12 inches apart, 10 inches apart in the row. If the salad is not to head, sow thickly and cut as desired. For best results it is well to sow only the varieties best suited to the different seasons and conditions. For winter use sow the seed in September in hotbeds and follow it with other sowings for succession.



Big Boston Lettuce.

**Big Boston**—Desirable for forcing and Spring and Fall outdoor planting. Always makes large, buttery heads with thoroughly blanched hearts. The heads are extra large, firm and solid, brittle and buttery; the hearts are crisp and beautifully blanched. **Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.**

**New York**, or Wonderful; also called Iceberg and Los Angeles—This very large heading lettuce is desirable not only as a garden variety for summer use but is much used as a fall and winter market sort. It is the variety largely grown in California and shipped to eastern markets under the trade name of Iceberg. The plant is very large but compact and tight heading; outer leaves attractive deep green, broad, frilled at edges. The inner leaves form a large head, very sweet and tender when in condition for use. Cultivate same as Big Boston. **Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.00.**

**May King**—This valuable Lettuce is, without any question, one of the best Lettuces on the list for early Spring planting in the open ground. The heads are six to seven inches in diameter, of a clear light green, the outer leaves being slightly tinged with brown, the inner being clear, bright yellowish, with very rich, oily flavor. It is an excellent market sort, the round,

compact heads being so solid that they carry extremely well. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.**

**Romain White Paris Cos**—Has long, narrow upright leaves; does not head, but when tied up blanches very nicely. **Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$1.75.**

**Best of All**—A great drought and heat resister; forms large compact heads of tight green leaves and yellow heart. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.**

**Grand Rapids**—Excellent for forcing, fine quality, large, loose, yellowish-green head stands well. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$1.50.**

**California Cream Butter**—A good Summer sort, of reliable heading quality. Yellowish-green, slightly



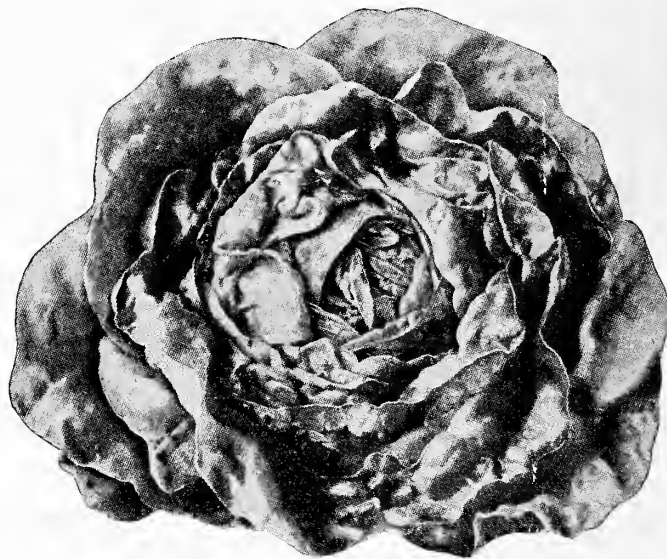
Romain White Cos Lettuce

marked with brown specks. This is a variety growing in favor. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.**

**Boston Market**, or White-Seeded Tennisball—Early and compact, quite desirable, good forcer. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.**

**Black Seeded Tennis Ball**—Similar to above. Price same.

**Way-a-Head**—Similar to the above, but suitable for all-season in or out-door planting. **Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$1.75.**



M.-S. Belvedere.

**M.-S. BELVEDERE LETTUCE**—In 1912 we introduced this grand Lettuce after having it in our trial grounds for two seasons, and we were amply repaid by the success which our Truck Farmer customers had with it. The **M.-S. Belvedere** is extremely slow in running to seed; it is therefore the ideal Lettuce to plant in the Spring, as it withstands the Summer heat better than any variety we have known so far. It is all green, no red edges, is tender and crisp and has a fine yellow heart. **Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.00.**

**WHITE BOSTON SPECIAL**—A new, very high-class strain of the pale green-leaved Big Boston type without the red-tinged leaf-edge. A surely dependable sort for growing in coldframes and for first field-planting in the early spring. Lettuce from this strain is not quite as large-framed but it cuts nearly as heavy in number of crates as the regular Big Boston, and it sells quicker and at higher prices. Many fields gave a 90 per cent first cutting for early market at top prices. The heads show comparative freedom from tip-burn. These features will soon repay the high seed-cost. Price same as above.

**Oak Leaf**—Quite popular. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.**



All Season M.-S. Strain.

**M.-S. STRAIN ALL-SEASON**—A cabbage lettuce of sterling merit, making larger and more closely folded heads than any other known variety. The outer leaves are a bright, soft green, the inner ones rich golden yellow. The solid heads measure from eight to ten inches across. Black seed. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.**

**Black Seeded Simpson Lettuce**—Fine, large, loose heads, early, finely fringed and curled; very popular for family garden and forcing. **Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.**

LETTUCE PLANTS POPULAR VARIETIES. SEE PAGE 5.

We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.



Flag Leek

## Leek

(German—Lauch. French—Poireau)

One ounce to 150 feet of row.

**Culture**—Sow the seed and care for the young plants same as for Onions, but they need a little more room to develop fully. When the young plants are about the size of a goose quill, transplant into a prepared bed in rows one foot apart and four to five inches in the rows. Set the roots deep and draw the earth to them when cultivating, so that they may be well blanched by the time they are fit for use.

**Giant Carentan**—Produces a large, thick stem and of mild flavor. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

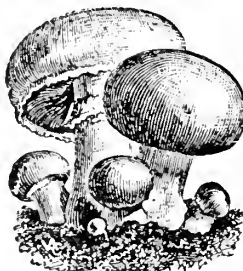
**American or Flag**—One of the hardiest and best for Winter use. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

## Pure Culture, Spore Process Mushroom Spawn

The best procurable; making cream colored mushrooms. 1 brick 25c (postpaid 32c); 5 bricks, \$1.00 (postpaid, \$1.15); 25 bricks, \$4.50 (postpaid, \$4.85); 50 bricks, \$8.50 (postpaid, \$9.10); full case, 100 bricks, \$16.00. Express or freight.

Leaflet on Growing Mushrooms free.

**Mushroom, or Hotbed Thermometers**—Wood frame, heavy brass point. Price, \$3.00. Parcel post weight, 2 lbs.



## Mustard

(German—Senf. French—Moutarde)  
One ounce will sow 100 feet of drill.

**Culture**—A small, pungent salad, used like cress; the seed is also used for flavoring pickles, pepper sauce, etc. For salads sow thickly in shallow drills 6 inches apart. Since plants go to seed quickly, short rows should be sown frequently, rather than long ones at one time. Successive sowings can be made every week or two. To grow seed, sow in April, in rows 1 foot apart, and thin out to 3 inches apart when 2 inches high.

**Chinese**—Large, light green leaves, frilled at edge. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Southern Giant Curled**—Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**White English**—Used mostly for the white seeds. Price same as above.



Improved Dwarf  
Green Prolific Okra

## Okra, or Gumbo

(German—Safran)

Four ounces to 40 feet of drill.

**Culture**—Sow the seed thickly in rich ground about the middle of May, or when the ground has become warm, in drills three feet apart, one inch deep; thin to 10 inches apart in drills. Grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor, and are considered nutritious.

**White Velvet, or Lady Finger**—Bears round, white, smooth pods, unlike other varieties, which are ridged or square edge. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**Improved Dwarf Green Prolific**—Of dwarf growth, but immensely productive and very early. Short, thick, green pods. Home grown seeds of superior quality. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**Perkins' Mammoth Podded**—The pods are of an intense green color, of unusual length—eight or nine inches—and do not get hard, as is the case with other okras. Very superior for canning. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 60c.

## Onion

(German—Zwiebel.  
French—Eignon)

American Grown Seed. One ounce for 100 feet of drill; six pounds for one acre.

**Culture**—For sets sow the seeds early as possible in the Spring, very thickly in drills. As soon as the tops dry off in the Summer remove them to a dry, airy place, and early in the following Spring replant by placing the sets in shallow drills 12 inches apart and about four inches apart in the drills; the Onions of this process obtained are of large size early in the season also be grown to full size during the first season by sowing thinly in drills one foot apart and about one-quarter inch deep in March or in early April, in strong land, well manured, and thinning them out to stand 3 or 4 inches apart in the drills.

**Prizetaker**—This is the large, pale yellow onion that is offered for sale in fruit stores and markets in the Fall. It grows to a very large size; flesh white, of mild and delicate flavor. The large onions are raised the first year from seed, and with ordinary culture produce enormous crops. The onions sometimes go over three pounds each in weight where good soil and culture is given them. Our seed is pure and genuine. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.00.

**Yellow Globe Danvers**—One of the most extensively used yellow onions. Price same as above.

**Large Red Wethersfield**—Grows to full size the first season from seed; almost round, large size, deep red color, and keeps well. Price same as above.

**Australian Brown**—A brown skinned onion which grows to a good size the first season. Price same as above.

**White Silverskin**—Ripens early; of large size, mild in flavor and excellent for Winter use; much esteemed for pickling when small. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Southport White Globe**—The earliest of the Southport Globes, perfecting a very handsome product within 90 days from sowing seeds. The bulbs are pure white and of a very mild flavor, also equally as good for keeping as the Yellow Globe. The flesh is remarkably firm and solid. It is an enormous yielder, and as it is very attractive, always sells at high prices. Price same as above. **ONION PLANTS, SEE PAGE 5.**

**White Bermuda**—They are of a mild and delicate flavor, and keep longer than any foreign variety. They will produce full-grown onions from seed the same season. Pkt. 10c; oz. 50c.

**Chives Seed**—Pkt. 10c; oz. 75c.

## Onion Sets

One quart will plant a row about 50 feet; 10 to 15 bus. to 1 acre.

Used for an early crop of onions, and should be planted just as soon as the ground can be worked. Press the bulb lightly in the ground and do not cover; in rows 12 inches apart, 2 inches apart in the row; so that all the development goes in the onion; on signs of their going to seed, bend the top over, but do not break it off. They can be harvested in this locality for Winter storage as early as July 10th. The advantage in planting sets lies in the fact that the young onion is ready in five weeks from time of planting, while those grown from seed cannot be used until well in the Autumn. Shipped on local orders about March 1st, unless otherwise requested.

For parcel post add to all pts. 7c, qts. 8c,  $\frac{1}{2}$  pecks 10c, pecks 15c, bus. 40c.

**Yellow Danvers**—Pt. 15c; qt. 25c;  $\frac{1}{2}$  peck 65c; pk. \$1.00; bu. of 32 lbs. \$3.00.

**Large Red Wethersfield**—Price same as above.

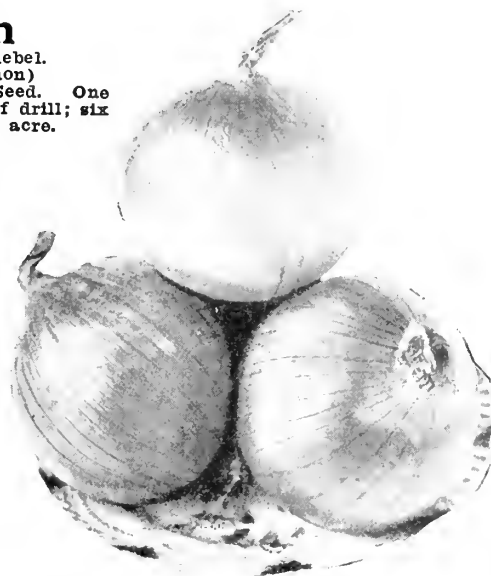
**White Silver Skin**—Pt. 15c; qt. 25c;  $\frac{1}{2}$  peck 75c; pk. \$1.25; bu. of 32 lbs. \$3.50.

**Japanese, or Ebenezer Onion Sets.** This variety is globe-shaped, about the color of a yellow Danvers, is very solid and has a mild flavor. It will keep longer than any other variety. Price same as above.

**Multiplier Onion Sets, yellow and white and Egyptian Top Onion, Brown,** are furnished in Sept. and Oct. Market price.

Price on Onion Sets subject to change.

Prices on larger quantities furnished on request.



Mammoth Prizetaker.

We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.**MUSKMELONS or CANTALOUPE**

(German—Melone. French—Cantaloup). One ounce will plant about 50 hills; two to three pounds in hills to acre.

The term "cantaloupe" as applied to muskmelon first came into use through its being grown near the Castle of Cantalupo in Marca d'Ancona, Italy. The term "cantaloupe" as applied to muskmelon leads to some confusion. Generally speaking in the United States the term "cantaloupe" is applied to those muskmelons which are adapted to long distant shipping and are, generally speaking, medium size, oblong, heavily netted fruits with practically no trace of lobes or ribs.

In vitamins muskmelons rank equally well with fresh orange juice and pineapple and contain the same quantities of vitamins A, B and C. The composition of the edible flesh of muskmelon contain an average of 90% water, 6/10 of one per cent protein, 1/5 of one per cent fat and about 1/10 of one per cent ash with some little variation in the per cent of invert sugars ranging from five to ten per cent—depending on the degree of ripeness—possibly a fair average being seven per cent. In calories the content is about twenty-eight per 100 grams or 125 calories per pound. There is also a trace of citric acid.

Muskmelon cannot be crossed with any other of the Cucurbit family, and therefore, Cucumber, Squash, etc., can be planted adjoining without damage.

**Culture**—Thrives best in light, rich soil. Plant early in May, in hills six feet apart. Manure in hill and sow seed freely. After danger from bugs is past thin to three plants per hill. When one foot long, pinching off tips makes vines branching and strong, and fruit will mature earlier. Water freely and feed liquid manure occasionally. For early use, sow in hotbed, on piece of sod.

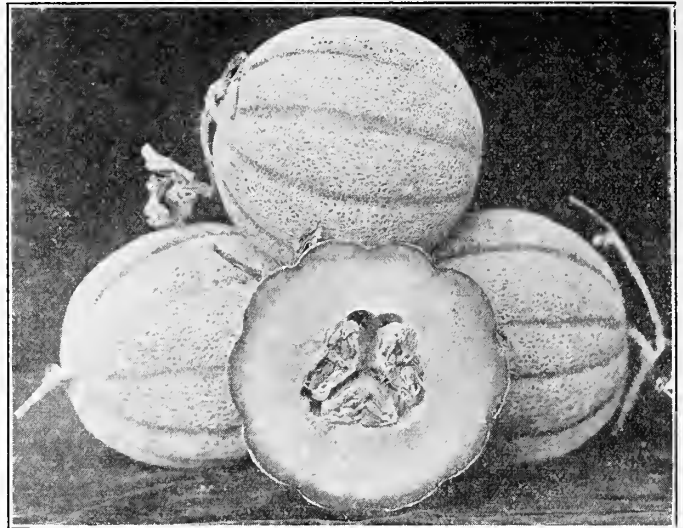
**LONG JOHN**—This is a product of Anne Arundel County which is famous for its fine Cantaloupes. It averages 8 to 10 inches, some specimens growing a foot long, deeply netted and ribbed, green-fleshed, thickly meated and deliciously flavored. Main crop variety. Seed scarce. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**SALMON-TINT No. 10-25**—This is an early melon of the solid netted type that is so desirable. Very small seed cavity, with thick, luscious flesh of genuine salmon-tint shading to green near the rind. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.25.

**Bottomly Cantaloupe**—True Anne Arundel strain. Great favorite with the Anne Arundel County truckers and private gardeners. Medium size, oblong, deeply netted, green flesh and delicious flavor. Our illustration shows this splendid variety so true to nature that there is no further need of describing it. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75.

**M.-S. GOLDEN WONDER CANTALOUPE**—Most delicious flavored golden yellow meat, which is thick and solid. Medium size, oval in shape, very vigorous and productive vines, which are great drought and blight resisters. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

We do appreciate hearing from pleased customers.



**Rocky Ford Cantaloupe.**

**Rocky Ford**—We have a very fine stock of this popular cantaloupe. Small, oval, of excellent quality and a good shipper; early; green fleshed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.

**M.-S. DELICIOUS GOLD-LINED ROCKY FORD CANTALOUPE**—Its shape is ideal, very slightly oval, no ribs, and is heavily netted over the entire melon. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.25.

**Early Netted Gem**—One of the best of small melons, and very popular. Prolific and of excellent quality. Very early. A great favorite. Green fleshed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.

**Emerald Gem**—Small, green skin, and delicious yellow flesh. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**Acme, or Baltimore Nutmeg**—A great favorite for retail market and for shipping. Large, oval, deeply netted, solid and of fine quality; green fleshed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.

**Jenny Lind**—Very early, small, round, netted and of fine quality; green fleshed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. \$1.00.

**Miller's Cream, or Osage**—Melons are large and round, with light green, netted skin, and thick, sweet, salmon-colored flesh. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**Knight Cantaloupe**—True Anne Arundel County grown strain. The great favorite of the Baltimore market, of good size, deeply netted, green flesh, and delicious flavor. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75.

**Banana**—This melon surpasses all others in its delicious fragrance. The flesh (the melon being nearly solid) is of a rich salmon. The quality is first rate when the melon is thoroughly ripe. It grows from 20 to 28 inches in length and is very prolific. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**Montreal Market**—The large fruits are nearly round in form, slightly flattened at ends, with very large, broad, heavy ribs. Dark green skin, thickly covered with heavy netting. The flesh is two inches thick, light green, melting, and of delicious flavor. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**New Honey Dew**—Produces a melon with smooth, almost white rind, measuring about six inches in diameter by seven to eight inches long. The green flesh is thick and is of a peculiar sweet flavor, resembling a well-ripened banana. To have the melons in the best condition we suggest gathering (or picking) as soon as they slip from the vine and store in a cool place for two or three days before serving; they apparently are at their best when a trifle over-ripe. While we cannot yet recommend Honey Dew for general culture, we offer selected seed at: Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**HONEY DEW**—Pink-fleshed, same as the above with the exception that the flesh is of a beautiful pink tint and highly flavored. Price same as green-fleshed.



A test of the Dominion Experimental Farm. The row on the left (unmulched) gave 26 Melons, weighing 31 $\frac{1}{2}$  lbs. The row on the right (mulched) gave 121 Melons, weighing 142 lbs.



We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.

## Parsnip

(German—Pastinake.  
French—Pannais.)

One ounce for 200 feet of drill; five to six pounds for an acre.

**Culture**—Sow as early in the Spring as the weather will permit, in drills 16 inches apart and one-half inch deep, in a rich, deep soil; thin out to six inches apart in the rows. The quality of the roots is improved by leaving them in the ground over Winter for Spring use.

**Improved Hollow Crown**—The best variety. A great cropper, roots long, very smooth, white, tender, sugary, and of excellent flavor. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 80c.

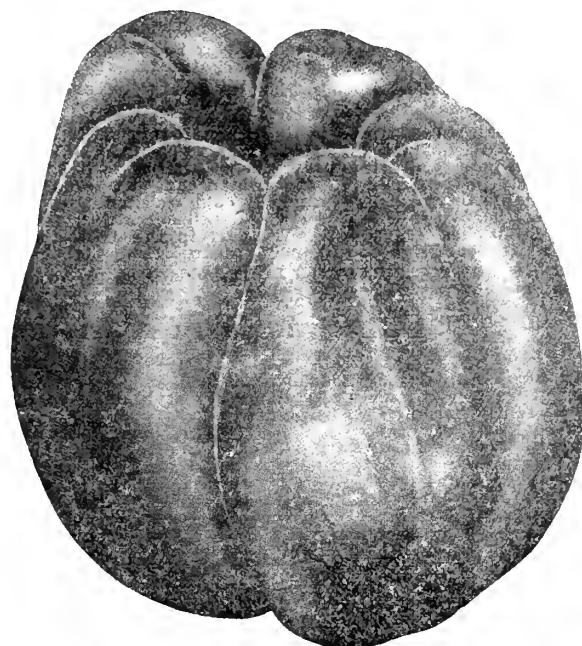
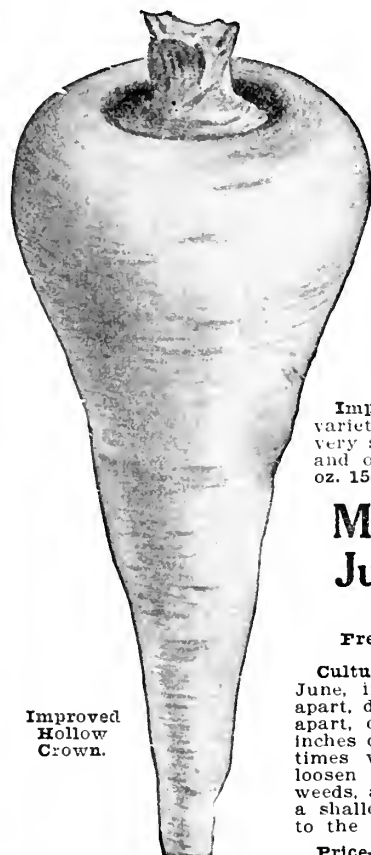
## M.-S. Improved Jumbo Peanuts

(German—Erdnusse.  
French—Pistache de terre.)

**Culture**—Plant in May or early June, in rows about 2 $\frac{1}{2}$  to 3 feet apart, dropping the nuts 8 to 10 ins. apart, one in a hill. Cover 1 or 2 inches deep. Cultivate three or four times with a cultivator, so as to loosen the earth and keep down weeds, and at the last working, with a shallow turn-plow throw the dirt to the nuts.

Price— $\frac{1}{4}$  lb. 15c;  $\frac{1}{2}$  lb. 20c; lb. 30c. Special price on large quantity.

Improved  
Hollow  
Crown.



California Wonder Pepper.

## Parsley (German—Petersilie. French—Persil)

One ounce to 150 feet of drill.

**Culture**—Parsley requires rich, mellow soil. The seed is even slower than Parsnip in germinating, and should be sown as early as possible in the Spring, in drills one foot apart, and when the plants are well up thin to one foot in the row. When the plants are about three inches high, cut off the leaves, the plant will start a new growth.



M.-S. Green Curled Beauty Parsley.

## Pepper (German—Pfeffer. French—Poivre)

One ounce will produce 1,000 plants.

**Culture**—Sow in hotbeds in March or April, or on a warm, sheltered border in May; when the season is favorable transplant in rows two feet apart and 18 inches in row, in good, rich ground.

**CALIFORNIA WONDER PEPPER**—Introduced in 1925. This pepper while similar both in size and shape to the Chinese Giant, is a much heavier and thicker meated pepper, the meat being about three times as thick as the Chinese Giant. The flavor is sweet, excellent and the keeping quality could not be better. It will outkeep a Chinese Giant Pepper by many days. A medium size pepper will average  $\frac{1}{2}$  lb. or better in weight when ready for marketing. It is an excellent shipper, uniform in shape and size. Pkt. 10c;  $\frac{1}{2}$  oz. 40c; 1 oz. 75c; 2 ozs. \$1.25;  $\frac{1}{4}$  lb. \$2; 1 lb. \$7.00.

### PEPPER PLANTS LISTED ON PAGE 5

**M.-S. Everbearing Sweet Pepper**—Early, large productive and of finest quality. The flesh is so thick and the meat so tender, that it can be fried like meat; it is so sweet that it may be eaten like an apple. Pkt. 10c and 25c;  $\frac{1}{2}$  oz. 35c; 1 oz. 65c;  $\frac{1}{4}$  lb. \$2.25; 1 lb. \$8.00.

**Large Bell or Bull Nose**—Large, early variety; hot flavor, thick and fleshy. Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.25.

**Chinese Giant**—This is a real monster pepper, perfectly sweet, the fruit is green turning to bright scarlet, matures very late, a very shy seeder. Fine for stuffed mangoes. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.75; 1 lb. \$6.00.

**Perfection Pimento Pepper**—Very fleshy and sweet. Pkt. 10c;  $\frac{1}{2}$  oz. 30c; 1 oz. 50c.

**Long Red Cayenne**—Long, slim, and very pungent. Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00.

**Mammoth Ruby King**—Good for Mangoes or pickling, very sweet. Large, quite productive. Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50.

**Small Chili**—Small, conical pods. Very hot. Pkt. 10c;  $\frac{1}{2}$  oz. 30c; oz. 50c.

**Red Cherry**—A small round pepper, very hot. Pkt. 10c;  $\frac{1}{2}$  oz. 40c; oz. 75c.

**Neapolitan**—Grows a long shape and somewhat narrow; it stands upright on the bushes. Sweet, bright red; and very early. Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.25.

**Golden Dawn**—A large yellow variety, very sweet. Pkt. 10c;  $\frac{1}{2}$  oz. 35c; oz. 60c.

**M.-S. GREEN CURLED BEAUTY PARSLEY**—Very handsome, dark green, beautifully curled. Dwarf habit, hardy and productive; very slow going to seed; it can be cut the year around. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Champion Moss Curled**—A distinct variety of unequalled merit, beautifully crimped and curled. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**Green Mountain Parsley**—Beautifully crimped and curled; perfectly hardy and vigorous grower. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**Hamburg, or Rooted**—Edible roots. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

WE DO APPRECIATE HEARING FROM PLEASED CUSTOMERS.

**SEMESAN PRODUCES FINER VEGETABLES**—Plant and seed diseases are responsible for poor yields and the unblemished quality of many popular vegetables. The best means of eliminating such wastes, consists of preventing the cause at its source by the disinfection of vegetable seeds with Semesan.

# M.-S. SUPERIOR HAND PICKED PEAS

(German—Erbesen. French—Pois)

Prices on Larger Quantities on Application.

Sow one quart of seed to 100 feet of row; and one-half to two bushels to the acre in drills.

Prices on all Pea Seeds are subject to market changes.

Packets of all varieties of Peas, 10c.

**Culture**—Peas succeed best in light, dry, loamy soil. Early and dwarf sorts require richer soil than the late varieties. If manure is used, let it be old and well-rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in the Spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. Sow in single rows, dwarf sorts three feet apart and tall sorts four feet apart, or in double drills, six to eight inches apart, one inch apart in the drill, and not less than four inches deep, for late sorts five to six inches deep. Deep planting prevents mildew.

**IF TO BE SENT BY PARCEL POST**, add to ½ pt. 7c; pt. 8c; qt. 9c; ½ peck 15c; peck 22c; bus. 67c.

## Extra Early Varieties

(Weight 60 lbs. per bushel.)

**Early Bird**—As early as Alaska and First and Best. As large as Thos. Laxton or Gradus. Dwarf, vigorous vines about 2 feet high, covered with immense well-filled pods. Perfectly hardy. Can be planted as early as any variety. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ peck \$1.50; peck \$2.75; bushel \$10.00.

**Mammoth Podded Extra Early**—On the order of First and Best, but pods one-fourth larger. Matures practically with First and Best and Alaska, and is much more productive. Vine and foliage robust, heavy and deep green. Height 3 feet. Pods dark green, 4 in. long, round, broad, saddle-backed and square ended, containing seven extra large light green peas. A very productive and extra fine sort, bound to take first place as a leading market gardener's first early pea. Price same as above.

**Long Podded Alaska**—Vines of this variety grow about three feet high and are heavy bearers. The pods, three inches long, mature shortly after Alaska and are well filled with sweet, tender peas. Price same as above.

**Extra Early Alaska**—Popular among market gardeners for an early crop. The pods are medium size, dark green in color and ripen almost at one time. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ peck \$1.50; peck \$2.50; bushel \$9.00.

**Pedigree First and Best**—An excellent strain of first early peas; very popular and largely planted throughout trucking sections. Height two to two and one-half feet. Price same as above.

**Prolific Early Market**—This is one of the largest podded and most productive of all smooth-seeded extra early peas. Vines grow about 30 inches in height, and can all be gathered in two pickings. The pods are remarkably well filled, and the peas sweet and fine flavored. A most satisfactory prolific early sort, both for the market gardener and the home gardener. Price same as above.

## Extra Early Wrinkled Varieties (Weight 56 lbs. per bushel.)

**M.-S. WORLD'S RECORD**—Medium vines of dark green color and heavy foliage, bearing large handsome well-filled pods measuring sometimes 4 ins. and longer, filled with from 8 to 12 tender, luscious peas. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ peck \$1.50; peck \$2.75; bushel \$10.00.

**Laxtonian**—A dwarf pea with large handsome pods. It is slightly earlier than Gradus, maturing about the same time as Thomas Laxton. Vines medium dark and medium heavy of foliage. Pods 3½ to 4 inches long, slightly curved. Will bear more abundantly at top of vines, making it easy to pick, very heavy yielder. Price same as above.

**Blue Bantam**—A splendid large-podded dwarf variety of the Laxtonian class. Height 2 feet. Vine and foliage stout and healthy, medium dark green; pointed pods dark green, 4 in. long, broad and straight, containing 6 to 8 deep green peas of excellent quality. Price same as above.

**Thomas Laxton**—An exceptionally fine variety, growing three feet in height and yielding large podded peas, four to five inches in length, of the finest flavor, very early. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ pk. \$1.50; peck \$2.50; bushel \$9.00.

**Gradus, or Prosperity**—One of the most popular wrinkled sorts. Even though it matures a short time later than the extra earlies, the pods, fully as long as those of the well-known Telephone, contain very large peas that are unexcelled for sweetness. Prices same as above.



Early Bird Peas.

## Medium Early Wrinkled Varieties

(Weight 56 lbs. per bushel.)

**M.-S. LITTLE MARVEL PEA**—An extremely valuable variety, especially suited to small home gardens, and also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs, and are closely filled with 7 to 8 peas of extra fine flavor. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ pk. \$1.50; peck \$2.50; bushel \$9.00.

**Nott's Excelsior**—Resembling Little Marvel in habit and growth. Price same as above.

**Daisy, or Dwarf Telephone**—The striking features of the Daisy pea are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are well filled with large peas of most excellent quality. The vines are 16 to 18 inches high, and, being strong and thrifty, require no support, making it an ideal variety for use where brush or stakes are not available. This pea is desirable on account of the fine appearance of the pods. Price same as above.

**Pot Latch**—Resembling Daisy, or Dwarf Telephone in habit and growth. Price same as above.

## Medium and Late Varieties

(Weight 56 lbs. per bushel except in Sugar Marrow.)

**Telephone**—For general planting this tall-growing variety is undoubtedly the most popular among market gardeners. The pods 4 to 4½ inches long, are light green in color and filled with large, sweet, tender peas. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ pk. \$1.50; pk. \$2.50; bus. \$9.00.

**Champion of England**—A standard pea; vines grow 4½ feet high and bear medium-sized pods of peas of good quality. Price same as above.

**Improved Sugar Marrow Peas**—We have the genuine stock of this variety. This pea is the kind planted principally by the larger growers around Baltimore for late crop. It is a strong grower and produces an abundance of large, well-filled pods. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ peck \$1.25; peck \$2.25; bus. \$8.50.

**Dwarf Melting Sugar**—The pods as well as the peas of this variety are edible and both very sweet. Pkt. 10c; ½ pt. 20c; 1 pt. 35c; 1 qt. 60c.

For the convenience of our customers, we suggest the varieties listed below, for successive planting and maturity.

These peas succeed each other in their numerical order as listed.

No. 1—Early Bird.

No. 2—M.-S. Worlds Record

No. 3—M.-S. Little Marvel.

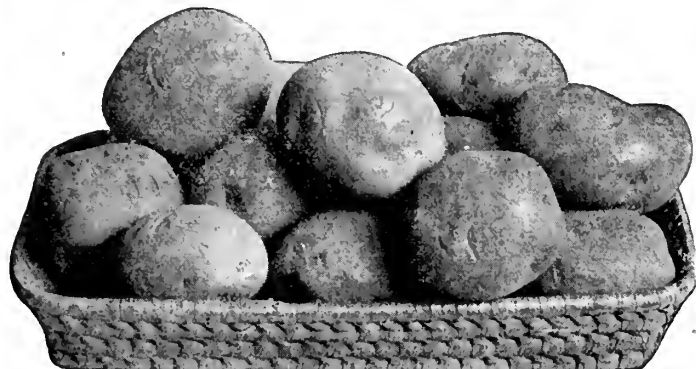
No. 4—Daisy or Dwarf Telephone.

No. 5—Telephone.

# POTATOES

Subject to Market Fluctuations.  
Prices on large quantities furnished  
on application.

(German—Kartoffeln. French—Pomme de Terre)



Irish Cobbler.

Present price of all kinds: Peck 75c; bushel \$2.50.  
Sack of 165 lbs. \$6.00.

If wanted by parcel post, first and second zone,  
add to peck 22c, to bus. 67c.

Prices on quantity of Potatoes furnished on application.  
Potato prices subject to market fluctuation.

Culture—Planting may commence as early in the Spring as the  
ground can be worked. Place one piece every twelve inches in  
rows two and one-half feet apart, covering about four inches.  
When cutting the seed allow one eye to each piece.

Ten bushels cut tubers will plant one acre.

Red Bliss—Very early, thin, red skin, round, white flesh.

Irish Cobbler—This is an early potato of exceptional merit,  
which has given our trade entire satisfaction. The shape is  
round. Flesh is white and the eyes strong and deeply set.

Houlton Early Rose—The Houlton strain of the old favorite  
Early Rose has been the most popular on our market in recent  
years.

M.-S. FILL BASKET—On account of the large yields that  
have been reported on this potato, our sales on it have increased  
wonderfully. It is of handsome round shape and most desirable  
for the best trade. It is a vigorous grower, ripens uniformly, is  
a good keeper, medium late. The vines are always very heavy,  
the seed being especially vigorous, and tubers always good size,  
where soil is well tilled. Very smooth and a good cooker.

Improved Green Mountain, Prosperity and Dakota Beds (all  
three late sorts). Prices furnished on application.

Choice Seed Sweet Potatoes, Leading Varieties—Prices on ap-  
plication. Sweet Potato Plants. SEE PAGE 5.



Paper-Mulched.

Excelsior-Mulched.

No Mulch.

The paper-mulched area yielded 29.2 barrels of prime Potatoes,  
while the excelsior-mulched and the area not mulched yielded  
only 7.6 and 8.3 barrels respectively. Plots were of  
equal area and received the same amounts of fertilizer.



## SEMESAN BEL

America's Premier Potato Disinfectant

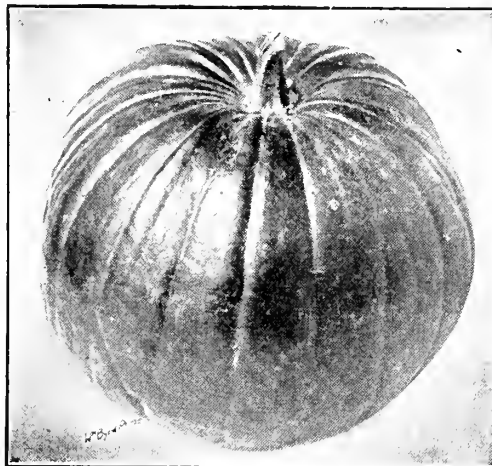
SEMESAN BEL acts as an antiseptic that  
either kills or retards the development of  
disease producing bacteria and fungi, as  
well as other similar parasitic organisms  
that may not produce disease results but  
which feed on the seed pieces, causing  
handicapped sprouting and weak or stunted  
growth of plants. 1 lb. \$1.75 will treat  
10 bus.; 5 lbs. \$8.00.

## Pumpkins

(German—Kurbiss French—Potiron)

We pay postage on pkts., ozs., ¼ lbs. and 1 lbs.

One ounce for fifteen hills; three to four pounds plant an acre.  
Culture—Sow in the month of May. Make hills the same as  
you do for squashes, but do not make the hills too close.



King of the Mammoths, or Pot Iron Pumpkin.

over 200 pounds. Flesh of a rich, golden yellow; a splendid  
keeper. Price same as above.

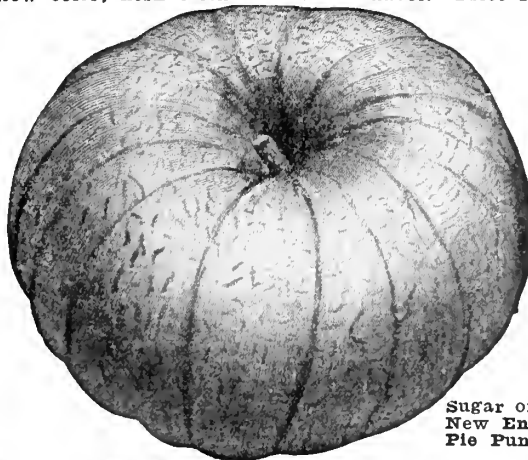
Cushaw, or Winter Crookneck—An old standard variety, which  
is very popular. It is also used for feeding stock. Long yellow  
crookneck, fine grained yellow flesh, very solid. Pkt. 10c;  
oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Cushaw Striped—Same as above, but it is green and white  
striped. Price, same as above.

Japanese Pie—Flesh very thick, rich salmon color, fine grain,  
dry and sweet. Price same as above.

Tennessee Sweet Potato—Excellent for pies; pear-shaped, medium  
size, flesh and skin creamy white, fine grained, sweet, a  
first rate keeper. Price same as above.

Winter Luxury Pumpkin—A very good keeper and a splendid  
pie Pumpkin; shape round; skin finely netted, and beautiful rus-  
set-yellow color; flesh thick and of fine flavor. Price same as  
above.



Sugar or  
New England  
Pie Pumpkin.

Sugar, or New England Pie—For making pies this variety can-  
not be excelled. The Pumpkins are small but very sweet, fine  
grained and of the best quality. Price same as above.

Common Yellow, or Connecticut Field—Very productive; for  
feeding stock. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.



# M.-S. SELECTED RADISH SEED

(German—Radies. French—Radis)

We Pay Postage on Pkts., Ozs., ¼ Lbs.  
and 1 Lbs.

One ounce for fifty-foot drill; ten pounds in drills  
to one acre.

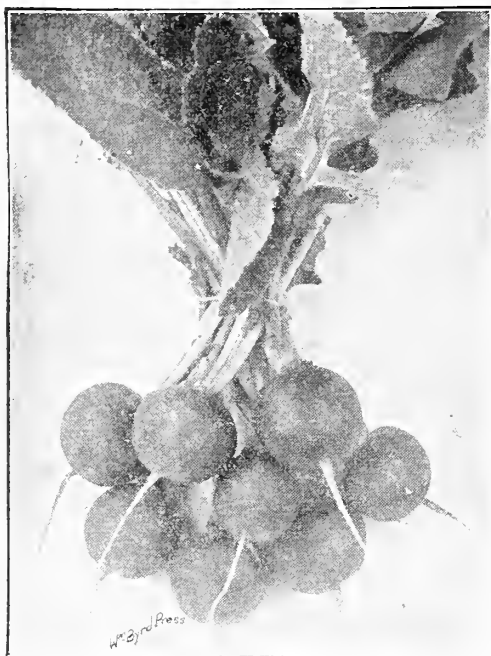
**Culture**—To be tender and crisp Radishes must be grown quickly, and this requires rich soil and plenty of moisture. Commencing with the first mild spell in the Spring, sow at intervals of ten days. May also be sown as a catch crop between rows of beets, lettuce, onions, etc. Radishes can be forced in hotbeds, but must have plenty of ventilation and moisture.

## Extra.Early Varieties

**Scarlet Globe Early—M.-S. Strain**—Highly recommended for truckers. This variety can be used for forcing and is recommended for early outdoor planting. It is small, round, red and of excellent flavor; its rich, crisp, tender flesh makes it very popular. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c; 10 lbs. \$7.00; 25 lbs. \$15.00.

**French Breakfast, Early**—Oblong shape, rapid grower, very mild and tender; of a beautiful scarlet color, tipped with white. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**Early Long Scarlet Short Top**—The principal outdoor quick-growing variety, also very good for forcing. Grown in light, rich soil, its average length is about eight inches; grows half out of the ground, straight, uniform in color, brittle, crisp, small tops, bright scarlet. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.



M.-S. Strain Scarlet Globe.



White Strasburg.

**Long White Vienna or Lady Finger**—Has slender pure white roots which are smooth and average about 6 to 7 inches in size when matured. They are quite early and of excellent quality. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**Icicle**—A beautiful long, slender radish, of recent introduction. Beautiful pearl-white color, firm and solid, slow to get woody. A good seller. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**White Strasburg**—Handsome, oblong, tapering shape, both skin and flesh pure white; flesh firm, brittle, tender and possessing the most desirable character of retaining its crispness, even when the roots are old and large. Excellent for Summer use, as it withstands severe heat and grows very quickly. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**New Glass, or Cincinnati Market**—A long Scarlet Radish with a distinctive white tip. A suitable radish for deep mellow soil. A fine radish for the home garden as well as an attractive one for the market stall. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**White Turnip (Short Top)**—Of quick growth; roots round, pure white, tails very thin; leaves short, flavor excellent. Fine for forcing and open ground. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**White-Tipped Scarlet Globe**—A good forcing variety. Small size and very attractive, being a handsome, bright scarlet, with white tip. Very early and good quality. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

**Ruby King, Extra Early**—Of brilliant red color, fine for forcing or open ground; roots are tender; juicy and mild. One of the best round red Radishes that grows. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.



The best soil improver you can use is manure. Use plenty of it. We can sell you a whole wagon load in a 100 lb. bag of our High Grade Sheep or Cattle Manure, at a surprisingly low figure.

**M.-S. EARLY CARDINAL RADISH**—These are the best little crisp red radishes, which come so early in the season; they grow globular in shape and are of the most brilliant cardinal red color; are tender and crisp; will stand the heat and are fine for forcing. The most desirable for home garden and market gardeners' use. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c.

**Crimson Giant**—Like above but much larger. Very desirable. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**Strawberry**—The exceptional merit of this radish is proved by its popularity increasing every year with successful market gardeners. This radish is a table dainty, crisp, tender and sweet; it is turnip shaped, bright scarlet color, and is a high class strain for out-door planting. It combines beautiful appearance with finest radish quality—appealing to the eye and palate. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

## Summer Varieties

**Large White Stuttgart**—Very large, top-shaped, flesh and skin white, fine quality, firm and brittle, seldom pithy. Can be stored for winter. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**Large White Summer Turnip**—Round, smooth and very white; crisp and tender. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**Golden Globe**—A favorite summer radish. Golden-brown skin, perfect globe shape, mild and brittle, slow to seed. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

**Improved Chartier**—Somewhat resembling brightest scarlet—early radish. It is double the size and later; long scarlet and tipped with white. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

## Winter Varieties

**Long Black Spanish**—Large radish, with black skin and white firm flesh, grows six to eight inches long. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.

**Round Black Spanish**—Like the above, except that it is round shape. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.

**Long White Spanish**—Like the Long Black Spanish, only different in color. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.

**Round White Spanish**—Like the Round Black, but white, like all the Spanish radishes, which are fine keepers, mild flavor and brittle. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.

**China Rose, or Scarlet China**—Bright rose-colored, stumpy-rooted, of excellent quality. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.

**White Chinese, or New Celestial**—Large stumpy-rooted, white skin and flesh, mild in flavor, brittle and never woody. For late planting and a splendid keeper. Market gardeners will find this a good variety that sells readily. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 85c.

**Sakurajima (Mammoth Japan)**—The largest sort in cultivation. Sow early in rich soil. In Japan it grows as much as twenty-one inches long and forty-three inches in circumference. Thin well to allow of proper development. Pkt. 10c; oz. 25c; ¼ lb. 75c.

**HORSE RADISH** (German—Meerrettig; French—Raifort)—  
SEE PAGE 5.



We Pay Postage on Pkts., Ozs., ¼ Lbs. and 1 Lbs.

## Rhubarb

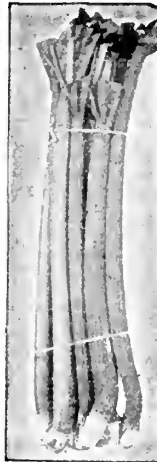
(German—Rhababer. French—Rhubarbe)

**Culture**—Sow seed in a cold-frame, in a fine, rich, sandy loam, about the first of March, in drills four inches apart. Keep the frames covered during nights and cold days, so that the soil will not freeze, and in six or eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and set in rows twelve inches apart and twelve inches in the row. The following Spring transplant to a permanent location, setting four or five feet apart each way. In good soil Rhubarb is ready to use the second year from seed.

If our two-year-old roots are used, a crop may be had the same season, which is much better than sowing seed where only a few plants for family use are needed. In the Fall the bed should have a thick dressing of coarse manure, to be spaded under in Spring.

**Myatts Victoria**—The leading variety. Pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$1.50.

ROOTS—SEE PAGE 5.



## Salsify, or Oyster Plant

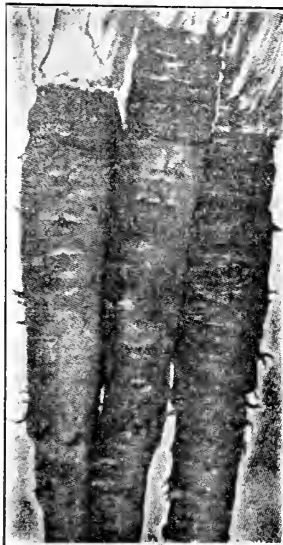
(German—Haferwurz. French—Selsif)

One ounce to seventy feet of drill; about eight pounds to the acre.

**Culture**—Sow as early as the ground can be worked in the Spring, in drills twelve inches apart, one inch deep, and thin out to six inches in the row. Keep them free from weeds. Cultivate the same as for Carrots and Parsnips. A part of the crop may be left in the ground till Spring, when it will be found fresh and plump. The roots are cut into pieces one-half inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like Parsnips, and have a sweet and agreeable flavor like that of the oyster.

**Mammoth Sandwich Island**—This is an improved type and the largest and most profitable salsify now in cultivation. It is white in color, and a satisfactory sort in every way; invaluable to market gardeners and truckers.

Pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.



Mammoth Sandwich Island Salsify

## Swiss Chard or Spinach Beet

German, Belsskohl. French, Poiree.

**Cultural Directions**—Swiss Chard is a beet grown for its leaves. The mid-rib when boiled makes delicious greens, or the leaves may be boiled and served as spinach. Sown in the spring the leaves are soon ready to eat and will continue to grow all through the summer and fall. If given a little protection it will survive the winter and make excellent greens early in the spring. One ounce will sow 60 feet of drill.

**M.-S. Delmonico**—This makes large, handsome, finely crimped light green leaves, which are tender and have a delicious flavor, the ribs are edible and not unlike asparagus. Absolutely the best for home gardens. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

**Giant Lucullus**—The leaves of Swiss Chard are used as greens, cooked in the same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

**Fordhook Giant**—Decidedly the best of the Chards. Leaves broad, upright in growth, and very dark green, crimped or savoyed, with broad, white mid-rib. Pkt. 10c; oz. 25c; ¼ lb. 90c; 1 lb. \$2.50.

## Vegetable Marrow

**Italian (Cocozelle di Napoli)**—Grows about 20 inches long, with a diameter of 3 or 4 inches. Skin smooth, dark green, marbled yellow or pale green.

**Cosazza**—Similar to the above. Great favorite with the Italians. Price of both, Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

## Sorrel, or Sourgrass

(German—Sauerampfer. French—Oseille)

**Culture**—Sow in Spring in drills 18 inches apart, in a rich soil and keep the flower-stems cut off as they appear. It remains in the ground year after year, and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds Spinach. It is also used for soups. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

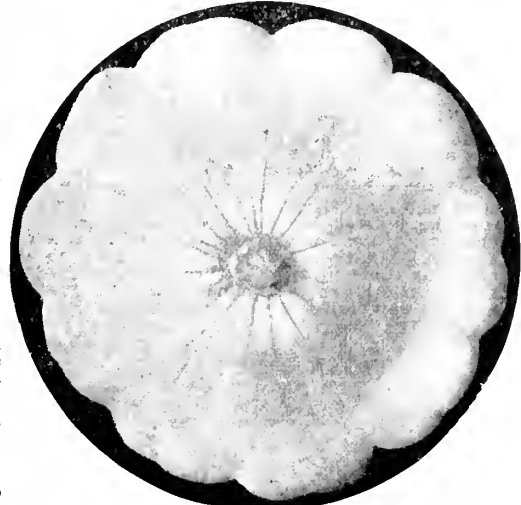
Large French—Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

## Squash

(German—Gemuse Kurbis. French—Courge)

Bush sorts, one ounce for fifty hills; five to six pounds to acre; running varieties three to four pounds in hills for an acre.

**Culture**—Squashes should be planted in a warm, light, rich soil after the weather has become settled and warm, about the middle of May or June. Plant in well-manured hills, in the same manner as Cucumbers and Melons—the Bush Varieties three to four feet apart each way, and the running kinds from six to eight feet. Eight to ten seeds should be sown in each hill, thinning out after they have attained their rough leaves and danger from bugs is over, leaving three to four of the strongest plants per hill.



M.-S. Perfection Bush Squash.

**M.-S. PERFECTION BUSH**—This is the finest scalloped white squash that grows, obtaining large size but stays tender as butter for a long time. The best for home gardens and market gardeners. Pkt. 10c; oz. 15c; ¼ lb. 45c; 1 lb. \$1.25.

**Early Mammoth White Bush**—An excellent strain. Early, prolific, much larger than the old White Bush. Splendid for market, best for shippers. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

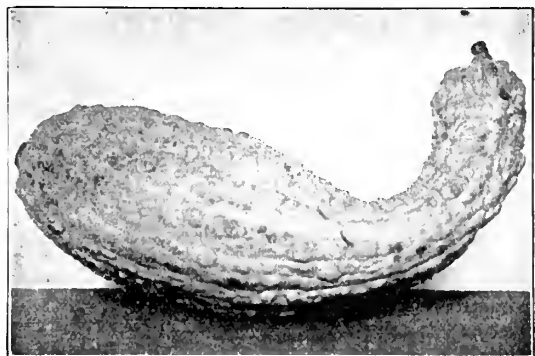
**GREEN TINTED BUSH**—Particularly desirable for Market Gardeners on account of its green tinted, well scalloped, uniform small sized fruit. Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

**Summer Crookneck, Bush Variety**—About one foot long, with crooked neck, bright yellow, warty, shell hard when ripe. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

**Hubbard**—An excellent keeper; splendid quality. Vines of strong running growth. Large olive-shaped fruits with dark-green skin; very rich flesh. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

**Golden Hubbard**—Like the above, but of a beautiful orange-red color, except for a bit of olive-green on blossom end. Flesh deep orange, dry, fine grained and richly flavored. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Boston Marrow**—This is a large-fruited, hard-shell sort, highly esteemed for Winter use, having bright orange skin and deep orange flesh. Very fine, extensively used for pumpkin pies. Fine, strong running growth. Very productive, oval shape. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.



Summer Crookneck Squash.

**Blue Hubbard**—A new variety and a selection from the original Hubbard. Fruit gray blue color; grows large; remarkably good keeper, and excellent quality. Running variety. Pkt. 10c; 20c per oz; ¼ lb. 50c; \$1.50 per lb.

We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.**M.-S. "SURE CROPPING" TOMATOES**

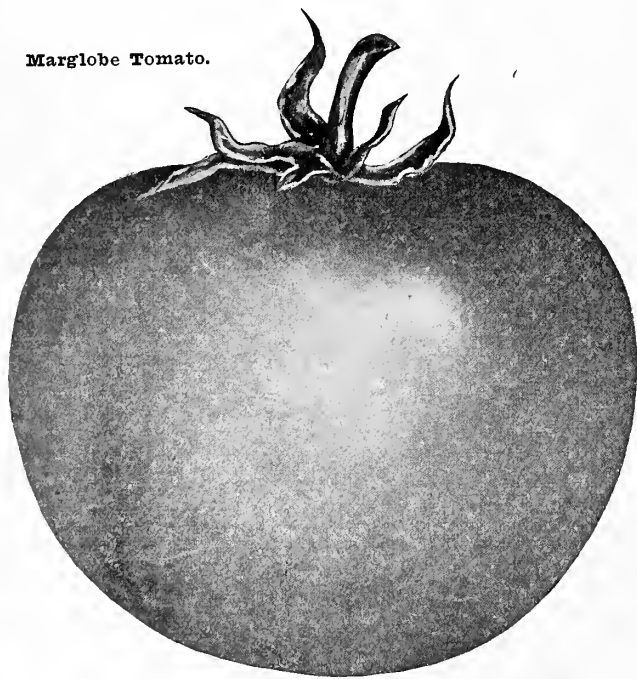
(German—Liebesapfel. French—Tomate)

One ounce for 1, 500 plants; quarter pound (to transplant)  
an acre.

Disinfection of the seed by dusting with SEMESAN at the rate of 1 ounce to 15 pounds of seed, or by soaking it for 25 minutes in normal liquid SEMESAN, prevents seed-rotting in soil, increases stand, vigor, and yield of plants. Ask for SEMESAN Vegetable Booklet giving complete directions.

**Culture**—This delicious vegetable is one of the most important of all garden products. The seed should be sown in a hot-bed about the first week in March or latter part of February, in drills five inches apart, and half an inch deep. When the plants are about two inches high they should be set into small pots, allowing a single plant to a pot. About the first of May the plants may be set out in the open ground in hills three feet or four feet apart each way. (Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower pot, and placing it in a sunny window of the room or kitchen.) Cultivate thoroughly as long as the vines will permit, but the last two or three workings of the soil should be very shallow (surface cultivation), or the crop may be badly injured, especially if the cultivator is run too near the young plants.

Marglobe Tomato.

**Marglobe**

(Pritchard Strain)

Tested repeatedly and approved by the United States Department of Agriculture. Is sure to be planted extensively before long. This is what the Department says about it. "Very productive, second early variety. Fruits large, smooth, meaty, red, globular. Highly resistant to wilt and somewhat resistant to blights. Pkt. 10c;  $\frac{1}{2}$  oz. 30c; 1 oz. 50c;  $\frac{1}{4}$  lb. \$1.50; 1 lb. \$5.00.

A great many of our customers claim the "Marglobe" the best tomato they ever planted.

**BREAK O'DAY**—The latest introduction in red fruited early globe shaped tomatoes. One of its parents is the well-known Marglobe, which it resembles closely in color, shape, size and solidity, but it is 10 to 12 days earlier and ripens along with Bonnie Best and other early varieties. The vines are open and not as heavy as Marglobe. As yet this seed is not very plentiful, especially as it is a shy seeder. We advise our customers to order early. Price: 25c pkt.;  $\frac{1}{2}$  oz. \$1.10; 1 oz. \$2.00;  $\frac{1}{4}$  lb. \$7.00.

**EARLY VARIETIES****M.-S. Early Wonder**

This is the sixth year that we are offering this wonderful extra early Tomato, after several years of careful selection. The fruits are large for so early a variety, round or slightly flattened, deep scarlet red color, smooth, free from cracks and of fine quality. It produces ripe fruit as early as Earliana and continues to yield marketable fruit a longer period than the other first early varieties. The vines are vigorous and very productive. We consider this a valuable addition to the list of early tomatoes for the market or home garden. Pkt. 10c;  $\frac{1}{2}$  oz. 35c; oz. 60c;  $\frac{1}{4}$  lb. \$2.00; 1 lb. \$6.00.

**Extra Early I. X. L.**—Combines extreme earliness, immense size and prolificness. Fruit red, ripening mostly all at one time. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 90c; 1 lb. \$3.00.

**Sparks Earliana**—Particularly desirable for shipping and for earliest market. The fruits are smooth, round, of red color, making desirable and salable fruits. Price same as above.

**Chalks Jewel**—A tomato of fine quality. Second early, round, smooth red fruit of excellent flavor. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.

**SECOND EARLY VARIETIES**

**Bonnie Best**—The finest of the second early tomatoes. About a week later than the Earliana, but far superior in quality. Fine red color, fine quality, hardy and productive. Excellent flavor. A most profitable variety for early and main crop. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.

**John Baer**—Is a good, all around second early tomato, the fruit being smooth, ripening clear to the stem and of a good rich red color. Price same as above.

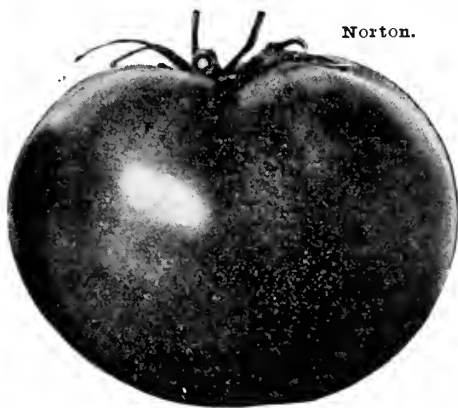
**June Pink**—For gardeners who have a market for a nearly purplish pink fruit (which is produced in clusters). This is the variety to plant. True strain seed. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25; 1 lb. \$4.00.



Tomato plants, nine weeks old. Planted with same seed. The increased yield for mulched Tomato plants is over 44 per cent.

For MULCH PAPER particulars, see pages 44 and 45.

CHAS. E. BROWN, of Waynesboro, Pa., tells us that our M-S Early Wonder and Marglobe Tomatoes are absolutely the best he ever had.



Norton's.

## MAIN CROP VARIETIES

**M.-S. BIG CHIEF**—A grand new main crop tomato of the very highest quality. It produces an abundance of large handsome red fruit, which ripens clean to the stem and will bear heavily from the early part of July until frost. It is a very shy seeder. The meat is deliciously juicy and free from acid. It is rare to see an ill-shaped fruit on a **M.-S. BIG CHIEF** VINE. We have tested this valuable new variety very carefully and have always been more than satisfied with the results. Order quick, as the seed is scarce, grown exclusively by us. Pkt. 10c; oz. 40c; ¼ lb. \$1.50; 1 lb. \$5.00.

**Norton's**—A wilt-resistant selection of the Stone type, maturing in about 160 days. This means it is a main-crop variety adapted to sections where the growing season is comparatively long. The fruits are somewhat flattened but of large size, and particularly recommended for the canning

trade. Introduced by U. S. Dept. of Agriculture. Pkt. 10c; 1 oz. 50c; ¼ lb. \$1.50; 1 lb. \$5.00.

**Wisdom**—This tomato of recent introduction has become very popular. It is a great yielder of large handsome red fruit, which ripens clean to the stem. It makes very strong vines and should be given plenty of room. Pkt. 10c; oz. 40c; ¼ lb. \$1.50; 1 lb. \$5.00.

**Kellys Red**—This variety has obtained immense popularity in the last few years. It was originated in Anne Arundel County. Its solidity and carrying qualities are remarkable. Its color is a desirable red. Its shape perfectly smooth and thicker from stem to blossom than most varieties, making it very handsome and salable. Nobody finds any fault with this variety, but all speak in the highest terms of its beautiful color, its wonderful yielding qualities, its unequaled firmness, or some other of its good points. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

**Greater Baltimore**—General crop tomato of sterling merits; large, smooth, beautiful red skin fruits, which are produced in great abundance until frost kills the vine. Price same as above.

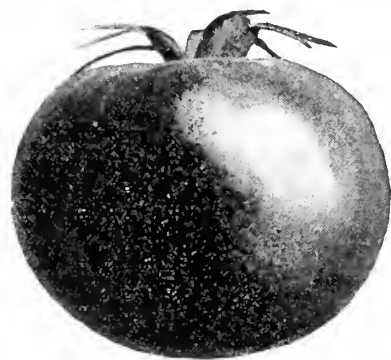
**B. B. (Brinton's Best)**—A very fine late crop tomato, which is similar to the New Stone. Keeps well after being picked. A vigorous grower and quite popular. Price same as above.

**M.-S. IMPROVED NEW STONE**—This variety is one of the very best tomatoes grown. For productiveness, shipping and canning qualities it is excelled by none. Bright scarlet, fine flavor, very smooth and round. We recommend it as a thoroughly reliable main crop tomato. Price same as above.

**Matchless**—Large, solid, smooth, handsome, deep red color, a heavy cropper and popular with canners. Price same as above.

**Red Rock**—A tomato for main crop. Producing enormous quantities of fine, large, red tomatoes, which carry well, making it a good shipper. Price same as above.

**Ponderosa**—Remarkably large and of fine quality. Very solid. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.50; 1 lb. \$6.00.



Greater Baltimore.

## PRESERVING VARIETIES

**Golden Queen**—Bright-yellow, large and solid. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.50.

**Yellow Pear Shaped**—For preserves. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.25.

**Yellow Plum Shaped**—For preserves. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.25.

**Red Pear**—Pear-shaped red. Pkt. 10c; ½ oz. 25c; oz. 40c.

**Peach**—Very small, pink fruit, with slight peach bloom on skin. Pkt. 10c; ½ oz. 25c; oz. 40c.

**Husk or Strawberry**—Used for preserves. Pkt. 10c; ½ oz. 30c; 1 oz. 50c.

**Red Cherry**—Small, grows in clusters, also used for preserving. Price same as above.

**TOMATO PLANTS, SEE PAGE 5.**

## Germaco Hotkaps



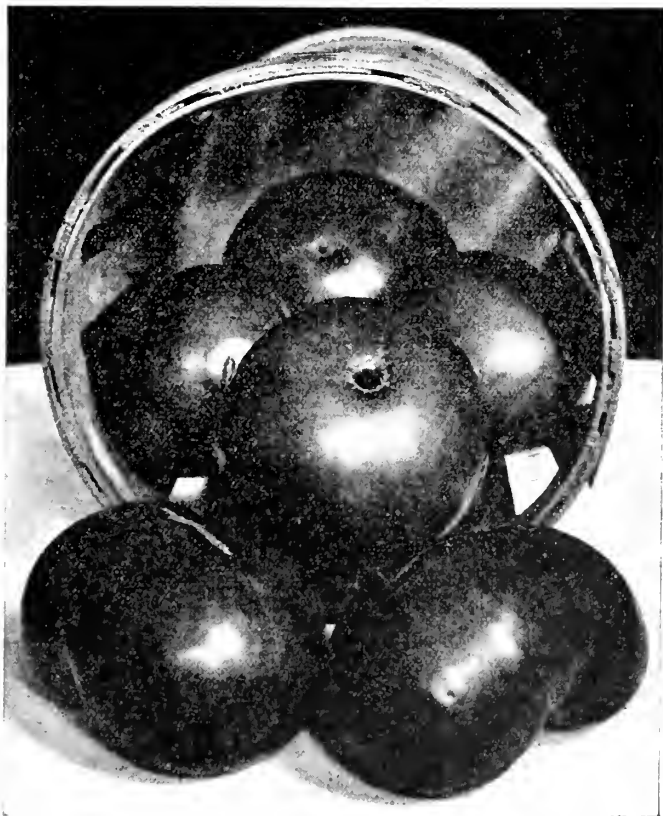
## Protect Plants for Profit

**GERMACO HOTKAPS** can make you extra dollars this season. They protect plants from frost, wind, rain, insects and ground crusting. Thus they produce harder, quicker crops. You get higher prices!

Thousands were used in 48 states last year. They cost so little that growers cannot afford to be without them.

**Prices:** 1,000 lots, \$11.50; postpaid, \$11.75; 5,000 lots, \$11.00; 10,000 lots, \$10.75. 250 trial package, including garden type waterproof setter, \$4.00; postpaid, \$4.15; Germaco steel **HOTKAP** setter, \$2.50; postpaid, \$2.60.

If you need **HOTKAPS** for your backyard garden, note these prices: 50 with garden setter, \$1.50; postpaid, \$1.60; 100 with garden setter, \$2.25; postpaid, \$2.40; garden setter alone, 50c; postpaid, 60c.



M.-S. Big Chief.

## Turnip

(German—Rube. French—Navet)

We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.

One packet for 100 feet; two pounds to the acre.

**Culture**—For early use sow as soon as the ground opens in Spring, drills from 12 to 15 inches apart; thin out to six or nine inches in the rows. For a succession, continue to sow in July and August. The Ruta Bagas are grown for feeding stock, and are also excellent for the table. Take up the roots in November or before severe frosts; cut off the tops within an inch of the crown, store in a cool cellar or pit, or pile up in a conical form, out of doors, in dry ground; cover carefully with long straw and finish by earthing up, covering them with about 12 or 15 inches of earth, leaving a trench around the heap to carry off the water. Put away in this manner they will be found in good condition in the Spring.

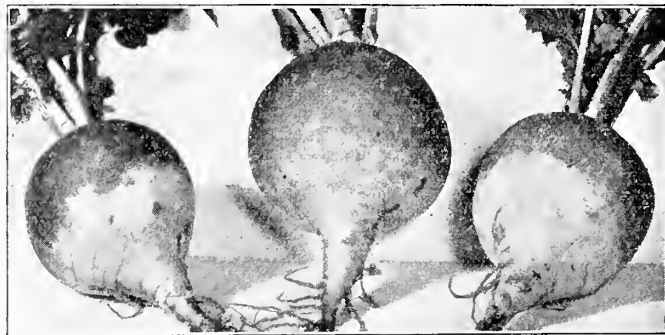


M.-S. Early Champion Turnip.

**M.-S. EARLY CHAMPION TURNIP**—This is the best Turnip for home gardens and market gardeners to plant. It is large perfect globe shape, white as snow with a beautiful distinct red shoulder (tops are not over large), stays tender and sweet a long time. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**Red, or Purple Top White Globe**—A variety of decided merit, and the most popular in our markets. Globular-shape, very handsome and of superior quality. Is a heavy producer, early, and of rapid growth, and an excellent keeper. Besides being a first-class table turnip, it is also very good for stock. **Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c; 5 lbs. \$2.50.**

**Extra Early Purple Top Strap Leaved**—**Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.**



Improved Purple Top Ruta Baga.

**Improved Purple Top Ruta Baga, or Swede**—The leading variety of Ruta Baga and is grown principally for stock, although it is very often used for table. Hardy, productive, flesh yellow, solid, sweet, fine grained and of good flavor. Ruta Bagas should be sown about one month earlier than other turnips. **Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**Purple Top Yellow Aberdeen**—Medium size, round, pale-yellow, tender and sugary. Is hardy and productive and keeps well. Closely approaches Ruta Baga in hardiness and firmness of texture. This is an old esteemed variety for stock. **Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.**

**White Egg**—A quick-growing, egg-shaped variety. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**Yellow, or Amber Globe**—Excellent for table use or stock. Fine quality, keeps well. **Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.**

**Pomeranian White Globe**—Free growing and rough-leaved. Pure white. Useful for table and stock. Large and productive. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**Cow Horn**—A long, white, carrot-shaped turnip, which grows half out of the ground. Mostly used for feeding stock, but makes a fine table sort. Has lately been brought to prominence for green manuring in connection with rape. **Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.**

**Seven Top**—Grown exclusively for its tops, and when properly prepared and cooked, make a fine dish. Withstands our winter without any protection. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.**

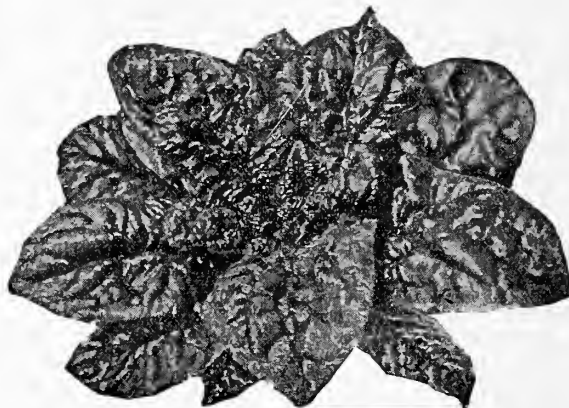
**Tennoji Turnip**—A Japanese variety of exceptional merit. Flat, snow white and of immense size, but very fine flavor. Seed very scarce. **Pkt. 10c; oz. 25c.**

## Spinach

(German—Spinat. French—Epinard)

One packet will sow fifty feet of drill; 15 to 20 lbs. to an acre.

Prices on larger quantities furnished on application.



Bloomsdale Savoy Leaved Spinach.

**Culture**—Sow in early Spring, in drills a foot apart, every two weeks for a succession, and as it grows, thin out for use. For Fall use, sow in August, and for Winter crop in September. Cover that which is left over winter with straw or leaves after the weather becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand in hills two feet apart each way, three or four seeds in a hill.

**M.-S. Re-selected Bloomsdale Savoy Leaved**—The popular Fall Spinach so largely grown for market. Grows upright, the leaves being crumpled, dark green and very thick. **Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.00; 100 lbs. \$15.00.**

**New Long Standing Bloomsdale**—Has all the good points of the above, in addition, it will withstand the summer heat and goes to seed very slow. **Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.25; 100 lbs. \$17.50.**

**Virginia Blight Resisting Bloomsdale Savoy**—This strain is not as heavily crumpled and of lighter color than the Re-selected Savoy. However in places where plants grown from Re-selected Savoy Seed show blight, this strain has proven to give excellent results, being absolutely free from blight. **Price same as above.**

**Juliana**—Very long standing, heat resisting, handsome dark-green. Very thick and curled leaves. Absolutely without male plants which is the cause of the long-standing quality. **Price same as above.**

**New Zealand**—Of delightful flavor and practically everbearing. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

## Tobacco Seed

**Culture**—A very clean piece of land is best for the tobacco plant beds, hence it is customary to burn a piece of land in the woods for plant beds. This destroys grass, weeds and insects, adds fertility through the action of the wood ashes, and leaves the ground in good order. The seeds are sown about February and protected by plant bed cloth to keep off tobacco flies. When large enough and weather is settled (about June) set the plants out in highly manured or fertilizer soil in  $3\frac{1}{2}$ -foot rows, 3 feet between the plants. Constant care must be given, cultivating, suckering, worming, etc. Methods of curing differ according to the variety and color, whether to be sun or flue-cured, etc.

**Connecticut Seed Leaf.**

**Improved White Burley**—A heavy yielder of rich, bright leaf, large, long and broad. Should be grown only on limestone soil.

**Choice Havana**—An Americanized Havana, used for cigar purposes, although sometimes used as a manufacturing sort. Has a very large, long, fine quality leaf; very early, making two crops a season in some sections. Best adapted to chocolate or rich gray soils.

**Above varieties**—**Pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.**



We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.

(German—Wasser Melone.  
French—Melon d'eau)

## WATERMELON

One ounce for thirty hills; four to five pounds for an acre.

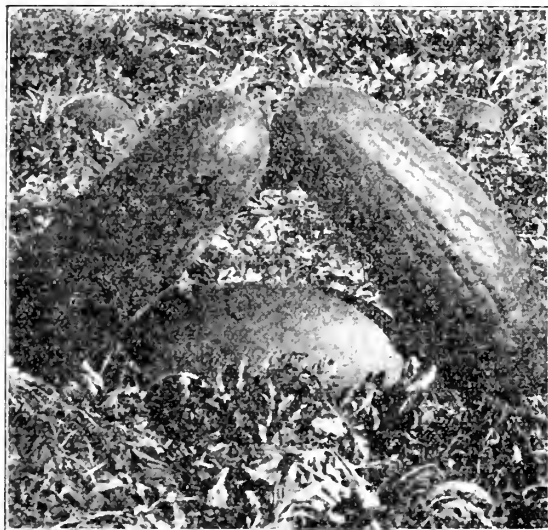
### THE MYSTERY OF THE WATERMELON

When a good ripe juicy Watermelon is sliced, you no doubt have been struck with its beauty, and after feasting on the flesh took some of the seed and dried it, but doubt if you ever made a calculation of the number of seed required to weigh a pound, and here is where some of the mystery of the Watermelon comes in.

Requires 4,000 seeds to weigh a pound, then apply mathematics to a 30-pound melon. One of these seeds put into the ground, when warmed by the sun and moistened by the rain, takes off its coat and goes to work, it gathers from somewhere more than 100,000 times its own weight and, forcing this raw material through a tiny stem, constructs a Watermelon. It ornaments the outside with green, inside the green it puts a layer of white, and within the white a coat of red, and all through the red it scatters seeds, each one capable of continuing the work of reproduction.

What architect drew the plan? Where does the little seed get its tremendous strength? How does it collect the flavoring extract? How does it build a Watermelon? Until you can explain a Watermelon, do not be too sure that you can limit the ability of the Almighty. Everything that lives, in like manner mocks by its mystery, beauty and power.

**Culture**—Watermelons should be planted in hills eight to ten feet apart. Otherwise for culture, see directions for cantaloupes. Do not grow them near pumpkins or gourds.

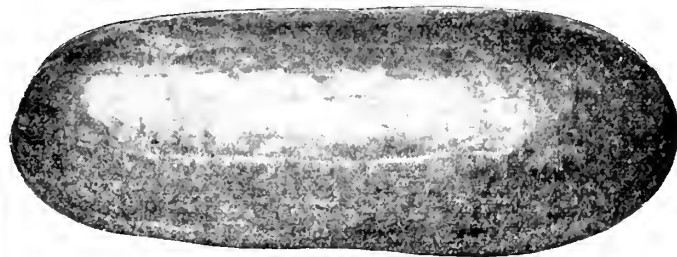


White-Seeded Excel.

**WHITE-SEEDED EXCEL**—Excel produces melons eighteen to twenty-two inches long by twelve to sixteen inches in diameter, and weighing from forty to sixty pounds; the dark green rind, indistinctly striped with a shade lighter green, is tough and easily withstands far distant shipment. The deep red flesh is crisp, melting and of finest flavor, entirely free from core or hard centers. Heart large and very firm with unusually small seed cavity. Seeds white, with black tips; time for ripening 95 days. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 85c.

**M-S. SWEET HEART WATERMELON**—The sweetest melon that grows. The best for home use and nearby markets. The dark red meat which extends almost to the rind, is of the most delicious flavor. Vines are strong and vigorous, the melons are medium to large in size. The skin is a very rich, dark green color. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 85c.

**GOLDEN HEART WATERMELON**—A decided novelty in Watermelons. Vigorous vines producing an abundance of light green melons, which have delicious yellow meat almost to the rind. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c.



Tom Watson Watermelon.

**TOM WATSON**—Our strain of this wonderful shipping melon has been very much improved in the last few years. It commenced to show white, hard centers, but through careful selecting our strain will produce nothing but melons which are red from the rind to the center, not showing any white streaks. The rind is very tough, making it an excellent melon for shipping long distances. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 85c.

**McIVER'S Wonderful Sugar**—Resembles Old Rattlesnake, superior in quality. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 85c.

**Florida Favorite**—Large, long, striped, excellent for family garden. Rind thin, but firm; flesh very deep red and very sweet. Splendid shipper. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 85c.

**Gray Monarch, or Long White Icing**—Very large, long, crimson flesh. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 85c.

**IRISH GREY**—The rind is exceptionally hard and firm. The flesh is bright red, sweet, firm but free from any hard centers or stringiness. A very desirable variety for those who prefer a long, light colored shipping melon. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

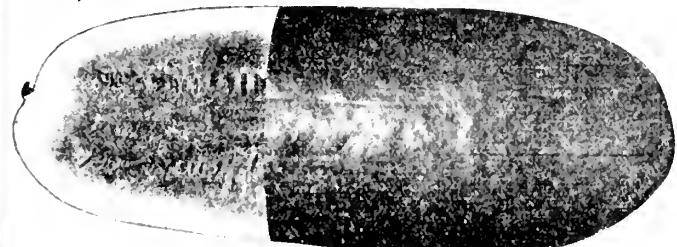
**General Pershing**—Also a good shipping melon similar to above. Price same as above.

**Indian Chief**—Excellent shipper.. Price same as above.

**Improved Georgia Rattlesnake**—The old Rattlesnake has always been regarded as a fine melon. Our strain is the result of careful selection by an experienced melon grower through many years of careful and watchful work. The rind is thin and tough, the flesh deep scarlet, the flavor unsurpassed by any other sort. We strongly recommend it both for shipping and home use. Our improved stock is very much superior to the ordinary Georgia Rattlesnake. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 85c.

**IMPROVED KLECKLEY SWEET**—Some years ago our grower set out to perfect a new type of this favorite melon, for the reason that the original type began to show some deterioration, and the color of the seed was showing decidedly too much brown smear, melons were not all growing uniform in size, and with the feeling that it is a grower's duty to keep the type of all good melons up to standard he carefully selected and bred this type until we now have a much better melon than the old type Kleckley Sweet; this improved type grows uniformly large, retaining all of the fine qualities as a table melon, with an important added feature of having much harder rind, which assures its satisfactory carrying quality, while the old type will not stand even short distance shipping in carloads. The seed are all creamy white, with no trace of brown, somewhat larger than the old type seed, the color of the rind remain the same—dark bluish green—and grows to much larger size than the old type. Fine for the home garden. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**CITRON**—Grows uniformly round and smooth, striped and marbled with light green. Flesh white and solid; seeds red. It should be borne in mind that this variety is not used for eating in the raw state, but for preserves, pickles, etc. Pkt. 10c; oz. 15c; lb. 75c.



Improved Kleckley Sweet.



A garden planted with **GATOR HIDE MULCH** means less labor and finer vegetables. For full particulars see pages 44 and 45.

# M.-S. RELIABLE GRASS, FORAGE AND FARM SEEDS

If Grasses Are Wanted by Parcel Post, Allow for Postage. Prices on Grasses Subject to Market Changes.  
Write for Samples and Prices in Larger Quantities.

**M.-S. Permanent Pasture Mixture**, either for Low or Up Lands. It is made up of grasses best calculated to afford an abundant and nutritious food supply for stock. The formulas are based upon successful experience. For all ordinary permanent pasturage, they will be found entirely satisfactory. When ordering state if for a low or up land, price of either: **Lb. 35c; 10 lbs. or over at 30c; \$8.40 per bushel of 30 lbs.**



M.-S. Permanent Pasture Mixture makes a nutritious food for cattle.

**Blue Grass, Fancy Kentucky**—(*Poa Pratensis*)—Our stock of this is extra fine, thoroughly re-cleaned; sow 3 to 5 bushels per acre on lawn,  $2\frac{1}{2}$  to 3 bushels on pasture fields (bushel 14 lbs.). **Per lb. 50c.** Larger quantity on application.

**Bermuda Grass**—Adapted for seashores; very hardy. **Lb. 75c.**

**Timothy** (*Phleum Pratense*)—Sow one-half bushel per acre alone; with clover, 1 peck (45 lbs. per bu.). **15c per lb.** Price varies constantly; ask for quotations in larger quantities.

**Crested Dogstail** (*Cynosurus Cristatus*). Excellent as a pasture and lawn grass. Sow  $3\frac{1}{2}$  to 4 bu. per acre (21 lbs. per bu.). **Price, lb. 65c.**

**English, or Perennial Rye Grass** (*Lolium Perenne*). This makes the quickest returns in growth of any grass; is deep rooted and is readily established. Sow  $2\frac{1}{2}$  bushels per acre (20 lbs. per bu.). **25c per lb.**

**Hard Fescue** (*Festuca Duriuscula*)—A splendid grass for golf links, tennis courts, etc.; will resist droughts. Sow 3 bu. per acre (12 lbs. per bu.). **Price, lb. 50c.**

**Herd, or Red Top Fancy Re-cleaned**—(*Agrostis Vulgaris*). This is one of the best grasses for sowing for immediate effect. Our stock is free from chaff and is absolutely pure. Sow 40 lbs. per acre (32 lbs. per bu.). **Price lb. 40c.**

**Meadow Fescue** (*Festuca Pratensis*)—Sow 40 to 50 lbs. per acre (22 lbs. per bu.). **Price, lb. 40c.**

**Italian Rye** (*Lolium Italicum*)—Very desirable for pasture; being an annual, it comes to maturity the first season; the ideal lawn seed for Southern lawns in winter. Sow 50 lbs. per acre (18 lbs. per bu.). **25c per lb.**

**Orchard Grass**—(*Dactylis Glomerata*)—For early pasturing this is very desirable; also fine for sowing in shaded places. Sow 40 lbs. per acre (14 lbs. to bu.). **Price, 30c per lb.**

**Red, or Creeping Fescue** (*Festuca Rubra*)—Very valuable for sowing on sandy soil and in shaded places and putting greens, tennis courts, etc. **Price, 50c lb.**

**Broom Corn** (*Sorghum vulgare*)—Succeeds in a good, deep soil, fresh but not damp, very sensitive to cold. Long-brush Evergreen, which is made into Brooms. (Bu. 50 lbs.). **20c lb.**

**Kaffir Corn**—Of great drought-resisting quality. Can be sown as late as July; 10 lbs. to the acre in drills (bu. 56 lbs.). **10c lb.**

**Cow Peas** (*Vigna Catjang*)—Valuable in this latitude as a fodder plant; their chief value, however, is as a green crop to plow under. The seed should not be sown till the ground has become warm. Sow 2 bu. per acre broadcast; 1 bu. in drills. We offer Black Whipperwill, Gray, New Era, Black Eye and other leading varieties, also mixed. **10c per lb. Quantity price on application.**

**Soja Bean** (*Glycine hispida*)—Mammoth Yellow, Brown and Black, Pekin, Sable and Wilson Blacks—All thrive well in our climate. Valuable for the South. Does not make good hay, but is good for ensilage or green fodder. Sow  $1\frac{1}{2}$  bus. per acre alone, or  $\frac{1}{2}$  bu. soja beans with 1 bu. cow peas. Yields as high as 20 tons of green feed per acre. **10c per lb. Quantity price on application.**



Soja Beans.

**Sudan Grass**—A tall annual grass, growing 6 to 8 feet high when drilled, but when sown broadcast thickly does not grow quite so tall. Every farmer and stock raiser should learn about this wonderful grass, as it is eaten by all kinds of stock, and will produce more hay to the acre than any grass that has ever been introduced. Allows 3 to 4 cuttings, and produces 2 to 5 tons per acre, depending upon the soil. Can either be drilled at the rate of 2 to 3 pounds per acre in 3-foot rows or broadcast at the rate of 10 to 20 pounds per acre. Plant from March to August. **25c per lb. Larger quantities, price on application.**

**Peas** (Canadian Field)—Valuable for cattle feeding, especially for milch cows. It also makes fine ensilage. It is sown broadcast in the spring and harrowed in. If sown with oats, about  $1\frac{1}{2}$  bus. to acre; in drills, 2 bus. to acre (bu. 60 lbs.). **Lb. 10c.**

**Golden Millet** (*Panicum Millaceum* var)—An improved variety, medium early, growing 3 to 5 feet high. Heads are closely condensed, though the spikes are very numerous. Sow 40 to 50 lbs. broadcast to the acre (bu. 50 lbs.). **10c per lb.**

**Japanese Buckwheat**—In the locality of Baltimore this is sown anywhere from June 1st to July 15th; one bushel of 48 lbs. broadcasted to the acre. **15c per qt.; pk. 75c.**

## Sorghum, or Sugar Cane

Ideal cattle food. Sow 1 or 2 bu. broadcast; 25 lbs. to the acre in drills. (Bu. 50 lbs.)

**Early Amber**—Grows 10 to 13 feet high. Fine for cows, either green or cured. **Lb. 10c.**

**Early Orange**—Ripens about 10 days after Early Amber, and is said to produce a larger crop. **Lb. 10c.**

**Sunflower**—Large Russian—**Lb. 15c.**



Sorghum.

## Vetch, Spring and Winter

**Sand, Winter, or Hairy Vetch** (*Vicia villosa*)—Thrives on poor, arid, sandy soils. It may be sown either in Fall or in Spring, mixed with rye, for a support. Grows three to four feet high and can be cut as soon as the bloom appears, and again for the seed. Perfectly hardy. Sow 50 pounds to the acre. Price variable. **Lb. 25c.**

**Spring Vetch**—Same as above, but not hardy; sow in Spring only. **Lb. 15c.**

MR. E. J. T. CARVEL, of Stevensville, Md., writes and says that our seeds are better than he has had from anybody. He also says that he is well pleased with the way we have been handling his orders.

# SEED INOCULATION

*The Best Inoculation  
for All Legume Seeds*



*Means Better Crops  
Better Soils  
Less Fertilizer Expense*

**FOR ALFALFA, CLOVER, BEANS, PEAS, VETCH, ETC.**

STIMUGERM is a culture of bacteria especially selected and bred for maximum vitality and ability to form nodules and take nitrogen from the air. STIMUGERM contains many millions of active, hardy legume bacteria, guaranteed to work. You can obtain STIMUGERM in either **JELLY** or **HUMUS** form.



Seeds of all legumes—clover, alfalfa, sweet clovers, soy beans, vetches, etc.—will yield far better returns if inoculated before planting, and in addition leave in the soil heavy deposits of valuable nitrogen which benefits all succeeding crops. It is crop insurance at very low cost, and the results will repay the small effort involved beyond your expectations.

These scientifically bred cultures are far superior to the natural germs in the soil and therefore inoculation is preferable to uncertain and laborious soil transfer.

**PRICES ON CULTURES FOR ALFALFA AND CLOVERS—POSTPAID**

1/4-bus. size .....	\$0.35	1-bus. size .....	\$1.00
1/2-bus. size .....	.60	2 1/2-bus. size .....	2.25

**Prices on Culture for Large-Size Seeds, Such as Soy Beans,  
Vetch, Cowpeas, Peas and Beans.**

1/2-bus. size .....	\$0.35	1-bus. size .....	\$0.60
2-bus. size .....	\$1.10	5-bus. size .....	\$2.25

Special Garden Size for Garden Peas, Beans, and Sweet Peas, 25c.



**Ventilated can  
opens easily with-  
out cutting**

Be sure to specify quantity and variety of seeds you wish to inoculate; also state whether Stimugerm Jelly or Humus is preferred.

## Clover Seeds

Write for Samples and Prices in Larger Quantities.  
Prices Subject to Market Fluctuation.

**Alfalfa, or Lucerne (Medicago sativa)**—Requires deep, rich well-drained soil. Roots very deeply, the tap-root descending often to a depth of 10 or 15 feet in loose soil. It is, consequently, capable of resisting great droughts. It should be sown alone (about the same time as oats are sown in this section) in thoroughly prepared, deeply plowed soil, at the rate of 20 to 25 pounds to the acre. It is also successfully sown as late as August and up to the middle of September. The crop should be cut when the plant is coming into bloom. In suitable soil it is perennial, and several crops may be cut every year. Height one to three feet. We handle home as well as foreign grown alfalfa. 30c per lb. **Grimm Alfalfa, certified, 50c per lb.** Large quantity price on application.

**Alsike, or Hybrid Clover (Trifolium hybridum)**—A perennial, one to three feet high; grows well in our locality and can withstand severe cold. A good honey plant for bees. Fifteen lbs. to the acre. **Lb. 35c.**

**Red Clover (Trifolium pratense)**—One of the most valuable farm crops for pasture, hay, or for turning under for green manure. It requires a deep, rich soil and yields two hay crops in the season. Sow at the rate of 15 pounds to the acre. **Lb. 35c.**

**Mammoth Red, or Sapling Clover**—Grows larger and lasts longer than the common red clover; valuable for plowing under. Ten pounds to the acre. **Lb. 40c.**

**Crimson, or German Clover (Trifolium incarnatum)**—Erect annual, one to two feet high, with bright-scarlet flowers. It is largely grown for improving the soil by turning under. It is a valuable crop for pasture or green manure. For hay it should be cut when in full bloom. Sow 20 pounds to the acre. **Lb. 25c.**

**White or Dutch Clover**—Listed on inside front cover page.

**White Sweet Clover (Melilotus Alba or Bokhara)**—Valuable sort for soiling and for ensilage and bees. Grows from 3 to 5 feet high; sown in rich soil; may be cut three times; lasts for years if cut before flowering. **Lb. 25c.**



## Oats

Appler, Virginia Gray and other best varieties for Fall and Spring sowing. 32 lbs. per bu. Sow 64 to 90 lbs. per acre. **Lb. 10c.**

Samples and Bushel Prices on Grain, Clover and Grass Seeds on Request.

## Seed Rye

The most popular Fall seeded forage and fertilizing crop grown. Furnishes excellent green food for poultry, hogs and live stock of all kinds. Keeps stock healthy and saves expensive commercial dry feeds. Hogs on rye pasture will make the same gains with half the amount of grain feed. Sow 1 to 1 1/2 bus. per acre broadcast.

Rosen and other varieties. Sow 1 1/2 bus. to the acre from July to November. 56 lbs. per bu. Sow 85 to 100 lbs. to acre. **Lb. 10c.**



## Seed Wheat

Bearded and Beardless varieties. 60 lbs. per bu. Sow 90 to 100 lbs. to acre. **Lb. 10c.**

**CERESAN**  
A Single Disinfectant, to Treat Your Wheat, Oats, Barley and Other Cereals against Smut.  
See page 51.

## Rape

**DWARF ESSEX ENGLISH (Brassica napus)**—Is excellent for sheep and hog pasture, and chicken yards, also for soiling. It may be sown in May, and will be ready for pasturing in July and August. Or it may be sown in June or July, and yet furnish a large amount of pasture or fodder. In drills, sow five lbs. to the acre; sown broadcast, ten pounds to the acre. **Lb. 15c; 10 lbs. \$1.25; 100 lbs. \$10.00.**

## Winter Barley

48 lbs. per bu. 96 to 110 lbs. per acre. One of the most productive Fall seeded grain crops grown. Being planted more extensively each year. Provides an abundance of highly nutritious forage, hogs, sheep, cattle, etc., being especially fond of it. Grown in this section largely for grain. Yields 25 to 50 bushels per acre. Invariably brings good market price. Sow 1 to 1 1/2 bushels per acre broadcast. **Lb. 10c.**

# M.-S. Reliable Flower Seeds

**Sow the Seeds** either broadcast or in rows, and cover lightly—a good general rule is to cover several times the size of the seeds and press the soil firmly. Small seeds cannot come up if covered too deep. Very fine seeds should be sown on the surface and pressed into the soil. To have the earliest blooms, flowers that stand transplanting should be sown early in boxes indoors. Water with a fine spray, do not let the soil dry out, do not keep the plants saturated, as they may damp off. When three or four leaves have formed transplant one inch apart in boxes, or in the open ground if warm enough.

## FLOWERS FOR SPECIAL PURPOSES.

it in both lists. Note carefully the heights of the plants so that a proper selection may be made.

**FOR BORDERS AND BEDDING.**—6 to 12 inches high. Alyssum, Brachycome, Candytuft, Dusty Miller, Centaureas, Daisy, Dianthus, Forget-Me-Not, Lobelia, Mignonette, Pansy, Bedding Petunia, Dwarf Phlox, Iceland Poppy, Pyrethrum, Portulaca, Verbena.

**FOR BORDERS AND BEDDING.**—1 to 2 feet high. Ageratum, Amaranthus, Antirrhinum or Snapdragon, Aquilegia or Columbine, Asters, Balsam, Begonia, Calendula, Calliopsis, Candytuft, Carnation, Clarkia, Chrysanthemum, Coleus, Centaurea, Cockscomb, Shasta Daisy, Dianthus or Pinks, Escholtzia, Gaillardia, Godetia, Heliotrope, Annual Larkspur, Marigold, Marvel of Peru, Mignonette, Dwarf Nasturtium, Petunia, Phlox, Poppy, Salpiglossis, Salvia, Scabiosa, Stokesia, Stocks, Sweet William, Vinca Wallflower, and Zinnia.

**PLANT IN BOXES AND TRANSPLANT.**  
Ageratum, Aster, Calendula, Canterbury

Bells, Calliopsis, Chrysanthemum, Cockscomb, Cosmos, Godetia, Lobelia, Marigold, Marvel of Peru, Petunia, Pyrethrum, Ricinus, Salpiglossis, Salvia, Sensitive Plant, Stocks, Sweet William and Verbena. These may also be planted where they are to grow.

**FOR EDGING AND LOW BORDERS.**—Alyssum, Brachycome, Candytuft, Dusty Miller Centaureas, Daisy, Forget-Me-Not, Ice Plant, Lobelia, Portulaca, and Stocks.

**FOR CUT FLOWERS.**—Antirrhinum or Snapdragon, Alyssum, Aquilegia or Columbine, Aster, Calendula, Calliopsis, Candytuft, Carnation, Flowering Centaureas, Chrysanthemum, Cosmos, Dahlia, Shasta Daisy, Dianthus or Pinks, Escholtzia, Gaillardia, Gypsophila, Heliotrope, Marigold, Mignonette, Nasturtium, Rudbeckia, Salpiglossis, Scabiosa, Stokesia, Stocks, Miniature Sunflower, Sweet Sultan, Sweet William, Sweet Peas, and Zinnia.

**The Soil** best suited to flowers is a light rich loam, made as fine and smooth as possible. If heavy, mix with sand to lighten and make it friable. Many seeds are very small and require a fine seed-bed.

**HALF HARDY and TENDER FLOWERS** should not be sown or transplanted outside until the weather is settled and warm.

**HARD SHELLED SEEDS** like Canna, Moon Vines, Morning Glories should have a hole filed through the outer shell, or soaked in warm water 24 hours before planting.

To aid those not familiar with the uses to which flowers may be put, we have classified a few below. Where a variety is suitable for two uses, we have entered

**FOR TALL REDS, GROUPS AND BACK-GROUNDS.**—Amaranthus, Calliopsis, Canna, Canterbury Bells, Tall and Plumed Cockscomb, Cosmos, Dahlia, Digitalis, Hollyhock, Kochia or Burning Bush, Perennial Larkspur, African Marigold, Nicotiana, Oriental Poppy, Evening Primrose, Ricinus, Salvia, Salpiglossis, Scabiosa, Stokesia, Sunflower, Woolflower, and Zinnia.

**FOR POTS, PORCH BOXES AND BASKETS.**—Ageratum, Alyssum, Begonia, Dusty Miller Centaureas, Ice Plant, Lobelia, French Marigold, Tall and Dwarf Nasturtium, Petunia, Smilax, Stocks, Thunbergia, Vinca, and Verbena.

**FOR MOUNDS AND ROCKERIES.**—Alyssum, Candytuft, Coleus, Heliotrope, Ice Plant, Lobelia, Mimulus, Pansy, Portulaca, Smilax, Thunbergia, and Verbena.

## All Following are Annuals

1. **Ageratum** (Floss Flower)—An excellent plant for edging or solid effects. A continuous bloomer. Imperial Dwarf Blue, Imperial Dwarf White or mixed. **Oz. 75c.**

2. **Alyssum** (Carpet of Snow)—One of the most popular garden flowers, in bloom all season. Used for edging or in rockeries or vases. **Oz. 75c.**

3. **Alyssum** (Lilac Queen)—A very pretty deep lavender-lilac, of dwarf compact habit. 6 inches.

4. **Amaranthus**—Brilliant foliaged annuals, growing from 3 to 5 feet high. They thrive best in a hot, sunny location, not too rich soil, and given sufficient room to develop their full beauty.

4-1. **Combustion, Sunrise** (erroneously called Summer Poinsetta)—The most brilliant of this brilliant family. The foliage is bronzy-crimson, each branch terminating with a tuft of bright scarlet-carmine leaves. It has been used with fine effect in many of the public parks. Grows from 4 to 5 feet, according to the amount of moisture it obtains, and flowers during the latter part of August or early September, or in other words the top turns red at that time. It makes a very showy plant during the entire summer months, culminating with the top turning red which resembles a Poinsetta. Unquestionably this is the most attractive tall annual garden plant on the market and is suitable for planting along fences where a good color is required. The seed germinates well and grows very rapidly as do all Amaranthus. **Pkt. 25c, 5 for \$1.**

4-2. **Tricolor Splendens** (Joseph's Coat)—An improvement on the old sort of more brilliant coloring.

4-3. **Candatus** (Love-Lies-Bleeding)—Has drooping crimson flower spikes.

**M.-S. SUPERB ASTERS** (a)—To our minds there is no other flower which combines so much beauty with grace and usefulness. In bloom from July till frost. To have early flowers sow indoors from March till May, otherwise sow outdoors. Asters require well-pulverized soil.

5. **AMERICAN BEAUTY ASTER**—The Queen of All Asters. Very new, far superior to Paeony and Branching varieties. In 1 colors: Azure Fairy, light blue; Carmine, Rose, Purple, Lavender; September Beauty, delicate flesh pink; White Beauty, giant white, and all choice mixed. **Oz. \$2.50.**

5a. **Sunshine Asters**—This pretty anemone-flowered variety is of great value either in beds, borders or for cutting.



Calendula, Ball's Strain.

10 cts. per Packet, Unless  
Otherwise Noted.

plants grow about 18 inches high, the dainty flowers held erect on good stems. The mixture offered contains a splendid range of delicate colors.

6. **Aster Ostrich Plumed**—Very beautiful. White rose, crimson, light blue, dark blue and choice mixed. **Oz. \$2.00.**

7. **Asters, Semples Branching**—In five distinct colors: white, pink, crimson, lavender, dark blue, and all colors mixed. **Oz. \$1.75.**

8. **Aster, Queen of the Market**—Very early: White, pink, lavender, scarlet, dark blue and choice mixed. **Oz. \$1.50.**

9. **Balloon Vine (Love in a Puff)**—A rapid growing annual climber. Seed pods like miniature balloons.

10. **Balsam (Lady's Slipper)**—An old-fashioned flower. With plenty of room they will develop to immense plants with gorgeous flowers. Colors: White, Rose, Scarlet, and Mixed.

10-1. **Balsam Apple (Momordica)**—Handsome climbing annual, bearing ornamental orange colored fruit.

11. **Begonia**—Invaluable for bedding and pot culture; about one foot high, beautiful foliage pink, white and crimson mixed.

11-1. **Brachycome** (Swan River Daisy)—A desirable hardy annual, blooming profusely the greater part of the summer; small blue flowers resembling those of the Cineraria; 9 inches.

**CALENDULA** (Pot Marigold)—Free flowering showy annuals of easy culture, producing a fine effect in beds or mixed borders; valuable also for pot culture for Winter and Spring blooming; 1 foot.

12. **Ball's Strain**—An extra long stemmed deep golden yellow. **Oz. \$1.50.**

Mr. John W. Bassler, Gardener, 3652 Malden Ave., says: The Branching Aster seed I got from you turned out fine (as usual) flowers measuring from 3 to 4 inches in diameter.





Hardy Carnation.

23. **Centaurea, White Leaved (Dusty Miller)**—Grown for their silver foliage; fine for edging and hanging baskets.  $\frac{1}{4}$  oz. 30c.

23-1. **Cerastium (Snow in Summer)**—Dwarf, white-leaved edging plant; flowers white. Oz. 40c.

23-2. **Chrysanthemums (Painted Daisies)**—The single-flowering annual Chrysanthemums or Painted Daisies are showy and effective garden favorites, extensively grown for cut flowers. The following hardy annuals are summer-flowering border plants (growing about 2 feet high), bearing in profusion large daisy-like flowers on good stems, and quite distinct from the hardy perennial and autumn flowering varieties.

Double Yellow— $\frac{1}{4}$  oz. 25c.

Pearl Double White— $\frac{1}{4}$  oz. 25c.

Single Mixed (Painted Daisies)—Many colors.  $\frac{1}{4}$  oz. 20c.

Coronarium, Double Mixed—Yellow, white, etc.  $\frac{1}{4}$  oz. 20c.

24. **Cineraria**—One of the most ornamental and useful plants for conservatory and house decorations. Mixture, 60c and \$1.00.



CARDINAL CLIMBER

13. **Lemon Queen**—Lemon-yellow. Oz. 50c.

13-1. **Meteor**—Yellow striped orange. Oz. 50c.

14. **Orange King**—Rich dark orange. Oz. 50c.

15. **Mixed Colors**—Oz. 40c.

15a. **California Poppy** (See *Eschscholtzia*).

16. **Calliopsis**—A very showy annual in bloom from early summer till frost. Lemon, yellow with dark brown centers, rich crimson and mixed. Oz. 50c.

17. **Canary Bird Vine**—One of the most charming annual climbers, bearing hundreds of pretty, fringed bright yellow flowers, which resemble a canary bird with expanded wings. Oz. 35c.

18. **Candytuft**—Dwarf, profuse flowers, of easy culture; useful for bedding and borders. Lavender, pink, crimson, white and choice mixed. Oz. 40c.

19. **Canna (Indian Shot)**—Although these are generally planted from roots, they may be grown from seeds. Oz. 30c.

19a1. **Carnation (Marguerite)**—These are the most satisfactory of the annual pinks, and will bloom in four months after sowing the seed. The flowers are large, fragrant and are produced continuously. If slightly protected the first winter, they will revive the following spring and bloom during that whole season. Oz. \$1.00.

20. **Cardinal Climber (Ipomea Quamoclit Hybrida)**—One of the finest annual climbers known today. Very graceful and beautiful, growing rapidly, and in a warm, sunny location with good soil, it reaches often a height of 20 feet; it is densely clothed with palm-like, rich green leaves, bespangled with clusters of fiery scarlet, tubular spear-shaped flowers, measuring about  $\frac{1}{4}$  inches across.

21. **Centaurea (Centaurea Cyanus, Cornflower)**—Also known as Blue Bottle, Ragged Robin, Bachelor's Button. An old favorite garden annual. Double blue, purple, pink, white and mixed. Oz. 40c.

22. **Centaurea Imperialis, or Sweet Sultan**—Gigantic, beautiful, sweet-scented flowers borne on long stems. Mixed. Oz. \$1.00.

22-1. **Cleome Gigantea (Giant Spider Flower)**—The plants attain a height of  $3\frac{1}{2}$  feet, well branched, each branch terminated by a large head of bright rosy-crimson flowers. It makes a striking subject for large beds or for interspersing in the shrubby border, and is used extensively in many of the public parks. Seed should be sown in the open ground as soon as the weather is warm and settled, and the plants given sufficient room to develop their full beauty.  $\frac{1}{4}$  oz. 25c.

27-1. **Coleus (Large Leaved Hybrids)**—Popular bedding plant with beautifully colored foliage; easily grown from seed if kept in warm temperature.

**Convolvulus**—Morning Glory.

28. **Cyclamen Seed**—Most beautiful winter and spring flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental.

Salmon pink, Rose, Bright pink, Finest red. Pkt. 50c; 100 seeds \$1.50.

29. **Cosmos (Lady Lennox)**—Giant flowering. An autumn flowering plant. A charming profuse bloomer. Crimson, pink, white and all colors mixed. Oz. 50c.

30. **Cosmos Klondyke**—Same as above, but a clear orange yellow. Pkt. 10c; oz. \$1.

31. **Early Summer-Flowering Cosmos**—Coming into flower in July, continuing until frost. Can be grown in the North where the seasons are too short for other strains. Dwarf, compact growth; 4 feet. Flowers beautiful and large; petals broad; crimson, pink, white and all colors mixed; profuse bloomer. Oz. 50c.

32. **Double-Crested Cosmos**—Extra early flowering. This is an entirely new class of cosmos, producing double-crested flowers of exceptional beauty. The grower does not claim that all plants have double flowers, but the fields show about 50 per cent; but the ones that do not show double are dreams of beauty. Pink, white, crimson and mixed.

33. **Cypress Vine (Ipomoea Quamoclit)**—A very graceful annual climber, with feathery foliage and beautiful star-like flowers. Scarlet, white, mixed. Oz. 50c.

**DAHLIAS**—There is no more fascinating flower to raise from seed than the dahlia, for the result is a series of surprises. Seed should be started in the house from February till May and the young plant should not be set outdoors until danger from frost is past.

34. Single mixed, Double mixed, Cactus mixed.

**California Giants**—A selection from named varieties, grown by a celebrated producer in California. Pkt. contains 40 seeds, 50c.



Double Crested Cosmos.

24-1. **Clarkia**—One of the prettiest and showiest hardy annuals. The plants bloom so freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight. They are useful, too, for hanging baskets, for vases and as edging plants. Sow outdoors in early Spring and grow in partial shade. They bloom through midsummer to late autumn. Average height,  $1\frac{1}{2}$  feet.

Castor Oil Bean—See *Ricinus*.

25. **Celosia Cristata (Crested Cockscomb)**—Very desirable annual of easy culture, large comb-like heads, excellent border plants, very good for pots. Mixed. Oz. \$1.00.

25-1. **Celosia Plumosa (Feathered Cockscomb)**—Very decorative plant for the garden. The feather plumes are excellent for cutting. Can also be cut and dried for winter use. Mixed colors. Oz. 60c.

26. **CHINESE WOOLFLOWER (Celosia Childi)**—This is a unique form of the feathered Cockscomb, growing 2 to 3 feet high, each branch terminated with a large head of flowers that look as if made out of some silky wool material. Not only effective in beds or borders, but highly interesting and valuable for cutting, as they can be dried and retain their bright color for weeks. We offer three colors and mixed. Crimson, very rich color. Canary yellow, dark pink and mixed. 10c each.

27. **Cobea Scandens (Cup and Saucer Vine)**—Well-known climber of rapid growth producing large bell-shaped blossoms; in sowing place the seeds edgewise, and merely cover with light soil.

**Helichrysum (Silvery Pink).**

35. **Dianthus Annual**—Colors: Crimson Single, Double White, Pink Beauty, Single and Double Mixed.

36. **Dimorphotheca (Golden Orange Daisy)**—One of the showiest garden plants of recent introduction; fairly compact, bushy plants are literally covered with brilliant orange-gold, daisy-like blooms, on fairly long stems during the entire season; excellent for cutting.  $\frac{1}{4}$  oz. 50c.

36-1. **Blue Eye (African Daisy).**

37. **Didiscus (Lace Flower)**—This pretty and interesting annual blooms most profusely from July till November; their exquisite pale lavender blossoms are excellent for cutting; plants grow about 18 inches high, and have as many as 50 flowers open at one time.

38. **Dolichos (Hyacinth Bean, or Texas Climber)**—Showy climber, making rapid growth. White, purple, mixed. **Oz. 25c.**

39. **Eschscholtzia (California Poppy)**—An elegant hardy annual with fine cut foliage and large poppy-like flowers; blooms from June till frost; fine for borders or large beds.

Choice Mixed. **Oz. 30c.**

**Curanteaea**—Rich orange. **Purple Glow.**

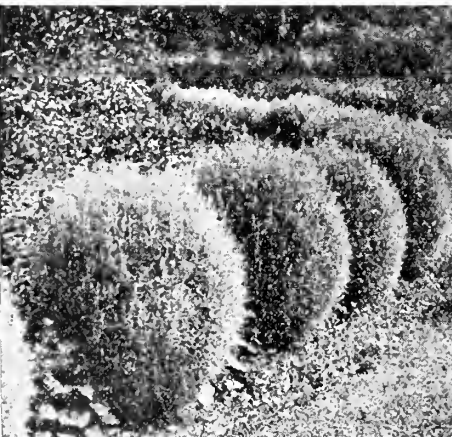
**Ballet Girl**—Carmine and white.

**Lovely**—Rose pink. **Orange Flame.**

**The Geisha**—Gold crimson. **Scarlet Beauty.**

**Aurantiaca**—Golden yellow.

Special: Pkt. 1 each of seven varieties, 50c.

**Kochia (Summer Cypress).**

40. **Euphorbia**—Plants with ornamental foliage, very showy and easily raised from seed. Known as "Snow on the Mountain." **Oz. 60c.**

**Forget-Me-Not**—See *Myosotis*. **64a.**

**Four o'Clock**—See *Marvel of Peru*. **57a.**

**Foxglove**—See *Digitalis*. **11p.**

41. **Gaillardia (Blanket Flower)**—One of the best garden flowers, excellent for cutting. The large highly-colored, daisy-like flowers appear continually during the season. **Oz. 60c.**

42. **Godetia (Satin Flower)**—Beautiful and easily grown, producing a profusion of flowers, satiny texture.

42-a. **Geranium Zonate**—Choice mixed.

43. **Gourds**—Dishcloth or Luffa. Nest Egg, Hercules' Club, Pear Shape, Mock Orange, Sugar Trough, Calabash, or Pipe Gourd, Thermos Bottle, Chinese Lantern, Dipper, and Apple, also a general mixture; rapid climbers. Each, oz. 40c. State kind wanted.

44. **Gypsophila (Baby's Breath)**—Pretty, free-flowering plants of easy culture; excellent for cutting to mix with other flowers. White and carmine. 2 feet. **Oz. 50c.**

**Helianthus**—See Sunflower.

45. **Heliotrope**—A well known and highly prized plant on account of the delightful fragrance of the flower. Excellent for pots or beds. **Pkt. 10c and 25c.**

46. **Helichrysum (Strawflower)**—One of the best and most popular of the everlasting flowers. Valuable for cutting or decoration, either when fresh or dried.

**Mixed Colors**—**Oz. 50c.** Canary Yellow, Fireball, Golden Globe, Rose Carmine Shades, Salmon, White.

Special. 1 pkt. of each of seven varieties. 50c.

46-1. **Helichrysum (Silvery Pink)**—A soft pleasing shade of delicate silvery pink, something quite and heretofore unknown in *Helichrysoms*. The blooms are quite large, two inches and more in diameter.

47. **Humulus (Japanese Hop)**—A rapid growing annual climber with luxuriant foliage; excellent for covering trellises and verandas. **Oz. 50c.**

48. **Hunnemannia (Giant Yellow Tulip Poppy)**—Sown outdoors in May it produces large quantities of giant yellow tulip-like flowers during end of August, continuing for the balance of the season; the foliage resembles *Eschscholtzia*; height, 2 feet.

49. **Single Hollyhock**. Annual. Mixed.

**Hyacinth Bean**—See *Dolichos*. **38.**

**Ipomoea**—See Moonflower. **60a.**

50. **Ice Plant**—Beautiful dwarf edging plants; flowers profusely in dry and sunny situations. Fine for pots. Covered with watery vesicles resembling pieces of ice.

51. **Jerusalem Cherry Solanum**—Indoor pot culture. **Pkt. 25c.**

52. **Kochia (Summer Cypress, or Mexican Fire Bush)**—An easily grown annual, which grows into a cypress-like hedge, with feathery green foliage; at the approach of Autumn the foliage turns to a deep red color; 2 to 3 feet. **Oz. 40c.**

**Lace Flower**—See *Didiscus*. **37.**

53. **Lantana**—Most desirable bedding plant; seeds are best germinated in a greenhouse from January till March. Flowers resemble *Verbenas*; plants bloom all Summer. Mixed. **Oz. 50c.**

54. **Lupinus**—Very desirable garden plants, showy, excellent for cutting. Graceful spikes 2 feet long in various shades of white, blue, pink and yellow mixed. **Oz. 60c.**

55. **Larkspur (Hollyhock Strain, or Annual Delphinium)**—Splendid annuals of easy

**Lupinus.**

culture. When sown early in spring will produce blooming plants in July. Graceful, fern-like foliage and slender spikes. Fine for cutting and garden decorations. White, blue, pink and all colors mixed. **Oz. 75c.**

56. **Lobelia**—No garden is complete without an edging of blue lobelias. Very desirable for pots and hanging baskets. **Crystal Palace.**

**Marigold**—These are old favorite free flowering annuals with rich, showy flowers blooming all summer. The tall African varieties are best for garden and cutting, while the dwarf French varieties are best suited for edging and bedding purposes. In colors and mixed.

57. **Marigold, French**—Legion of Honor, single brown and yellow; Golden Ball, double golden yellow, dark and all colors mixed. **Pkt. 10c; oz. 60c.**

58. **Striped Marigold, African**—Lemon Queen, Orange Prince colors. **Oz. 75c.**

58-1. **Marigold, African Mixed.** **Oz. 25c.**

**Larkspur Hollyhock Strain or Annual Delphinium.**

59. **Marvel of Peru** (Four o'Clock)—Bushy plants of easy culture, producing hundreds of flowers during the entire Summer; very showy; 2 feet. Oz. 30c.

60. **Mignonette**—Valuable for cutting on account of its fragrance. Sow in succession during the whole Summer; may also be forced in greenhouses during winter.

**Golden Machet**—Large reddish tinted, sweet scented flowers. Oz. 75c.

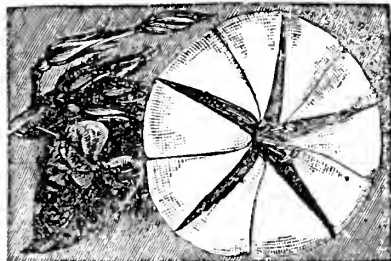
61. **Mimulus Tigrinus** (Monkey Flower)—Showy, profuse flowering plants; fine for greenhouses or moist, shady situations; 1 foot.

61-1. **Mimulus Moschatus** (Musk Plant).

**Momordica**—See Balsam Apple. 10-1.

62. **Moon Flower** (*Ipomoea Noctiflora*)—Climber. At night and during dull days the plants are covered with an abundance of large, pure white fragrant flowers. Oz. 75c.

63. **Imperial Japanese Morning Glories**—These are beyond question the handsomest of all Morning Glories. Of the easiest culture, can be sown in the open ground in a sunny situation when the weather has become warm and settled; they soon cover a large area, and even before flowering are decidedly interesting on account of the varied forms of the foliage and their markings. The flowers are of gigantic size and their colorings beyond description; the self



Moon Flower.



Marvel of Peru.

Mignonette.

or solid colors range from snow-white to black-purple, with all the possible intermediate shades; there is also an endless number having flowers spotted, marbled, striped, flaked, splashed, etc. Oz. 25c.

64. **Double-Flowering Morning Glories**—These beautiful climbing annuals are of very rapid and luxuriant growth; the flowers will come double, semi-double and a few, perhaps, single. The colors vary; there are various shades of blue, white spotted with red, white marbled with purple and lavender, crimson, pure white, etc. Mixed colors. Oz. \$1.00.

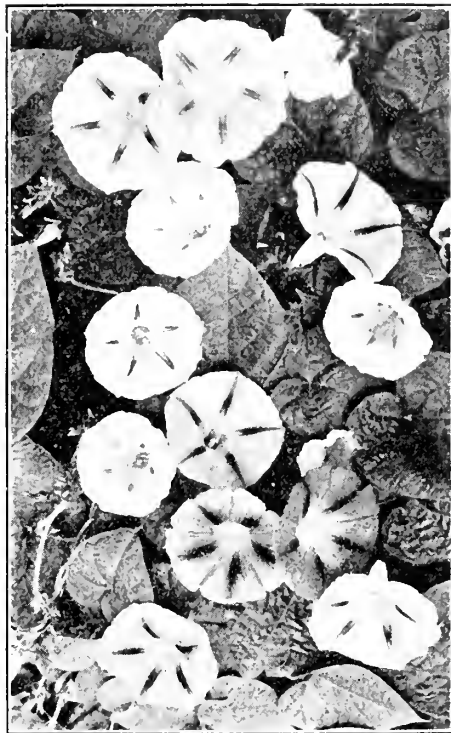
65. **Fancy Fringed Morning Glories**—The perfection of morning Glories. Immense flowers, often as big as saucers, all wavy, ruffled and fluted from throat to margin, like crumpled velvet. They are simply magnificent. Mixed colors. Oz. 50c.

**Mourning Bride**—See Scabiosa. 90c.

**Nasturtium**—See below.

66. **Nicotiana**—Splendid showy flowers on long terminal tubes. It is so fragrant that a small bed will perfume the surrounding atmosphere. Mixed colors and pure white and purple.

67. **Oenothera** (Evening Primrose)—Beautiful low-growing plant, producing large, silvery white rose and yellow flowers. They thrive best in a sunny position, but succeed in almost any situation or soil. Annual varieties, all colors; mixed.



Morning Glories.

## M.-S. GIANT FLOWERING NASTURTIIUMS

When Ordering Nasturtiums, Be Sure and Specify Number and Letter, Like 1-b.

Nasturtiums are among the best known and most popular of hardy annuals, and within the past few years have been greatly improved in size as well as in colors and markings. Easily grown, and producing a great profusion of brightly colored flowers from within a few weeks after they are sown until they are killed by frost; they succeed best in rather light, well-drained soil.

### DWARF VARIETIES

1b. **Vesuvius** (Salmon Rose)—These have a neat, compact habit and attractive foliage, are not disturbed by insects, bloom most profusely the whole season.

2b. **Chameleon**—Produces various colors and markings on the same plant.

3b. **Empress of India**—Dark-leaved velvety dark scarlet flowers; select flowers.

4b. **Spotted King, or Ladybird**—Rich yellow, scarlet-spotted flowers, dark-leaved; splendid.

5b. **Queen of Tom Thumbs**—Variegated foliage; choicest mixture.

6b. **Golden Queen**—Yellow-leaved, with golden yellow flowers.

Prices on all the above varieties: Pkt. 10c; oz. 20c; 1/4 lb. 60c.

M.-S. Fancy Giant Flowering Mixed Dwarf—Pkt. 10c; oz. 15c; 1/4 lb. 35c; 1 lb. \$1.00.

Our Nasturtiums are noted for their size, variety and brilliancy.

### TALL VARIETIES

7b. **Dunnett's Orange**.

8b. **King Theodore**. Purple dark foliage.

9b. **Crimson**.

10b. **Pearl, Amber White**.

11b. **Jupiter Yellow**.

Prices on all the above varieties: 10c pkt., oz. 20c; 1/4 lb. 60c.

M.-S. Tall or Climbing Nasturtiums—For covering trellises, fences, arbors, piazzas, or trailing from vases, urns, etc. Bloom from early Summer until frost. Pkt. 10c; oz. 15c; 1/4 lb. 35c; 1 lb. \$1.00.

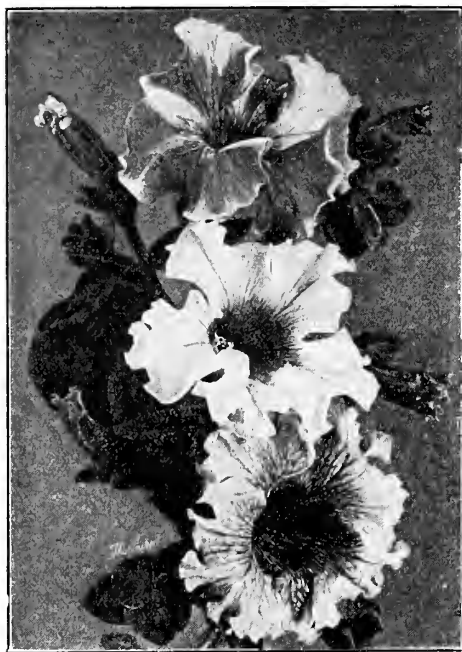


M.-S. Tall or Climbing Nasturtiums.



M.-S. Giant Flowering Dwarf Nasturtiums





Mammoth Petunia.

## Petunias

The Petunia is without a peer among annuals for effective Summer bedding or indoor culture. It is of easy culture early to blossom and continues throughout the Summer until the first killing frost. No other flower produces greater diversity of color, retaining its freshness for so long a period.

68. **M.-S. PETUNIA MAMMOTH**—Very fine, all colors mixed. **Oz. \$1.50.**

69. **Snowball**—Pure white. **Oz. \$1.75.**

70. **Rosy Morn**—Pink. **Oz. \$2.50.**

71. **General Dodds**—Blood red.

72. **Howard's Star Petunia**—A beautiful variety; produces a profusion of crimson-maroon flowers, each having a distinctive five-pointed white star. **Single. Oz. \$3.50.**

73. **M.-S. De Luxe Bedding Petunia**—Embracing only large flowering, gorgeous colored varieties. **Oz. \$2.50.**



Double Portulaca.

74. **Balcony Petunias**—A splendid free flowering type for window or porch boxes, vases, etc.; also valuable for bedding, giving a display of flowers throughout the entire summer until frost; the flowers are large, averaging 3 inches across. **Blue, Crimson, Rose, White, and Mixed Colors. Pkt. 10c.**

## Single and Double Poppies

A great advance has been made in recent years in the development of the Poppy which has brought it into deserved popularity, and it may be safely said that no other flower produces a more brilliant display of color during the blooming period. Annual Poppies should be sown as early in the Spring as possible where they are to remain, as they do not stand transplanting. If constant blossoms are desired, successive sowings should be made every two weeks.

### SINGLE POPPIES

75. **M.-S. Shirley Poppies**—A bed of these Poppies produces a gorgeous effect in the garden; large flowers with brilliant colors. **Pkt. 10c; oz. 25c.**

76. **American Legion**—A greatly improved English Scarlet or Flanders Poppy with very large flowers of dazzling orange scarlet; 2 feet. **Pkt. 10c; oz. 30c.**

76-a. **M.S. Flame Poppy**—A mixture of gorgeous red Single and Double Poppies. **Pkt. 10c; oz. 75c.**

### DOUBLE POPPIES

77. **"Mikado"**—(Double the Striped Japanese Poppy)—This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white, with elegantly curved petals, like a Japanese Chrysanthemum. **Pkt. 10c; oz. 30c.**

77-a. **American Flag**—Beautiful variety; flowers very large and double, snow white, bordered with scarlet; 3 feet. **Pkt. 10c; oz. 30c.**

77-b. **Double Flowered Mixed Poppies**—Immense double flowers, resembling a Peony; 2 feet.

78. **Cardinal**—A splendid dwarf variety of the carnation-flowered type, growing about 30 inches high and bearing large globular, fringed flowers of an intense cardinal red. **Pkt. 10c; oz. 30c.**

78-a. **Eldorado**—Double pink. **Pkt. 10c; oz. 30c.**

**Yellow Tulip Poppy**—See Hunnemania.

79. **Portulaca Single (Mexican Rose)**—Brilliant hardy annual, of easy culture; excellent for massing in beds or rock work; thriving best in a light, sandy soil and a sunny situation; flowers of the brightest colors. **Oz. 75c.**

80. **Portulaca Double**—**Pkt. 10c; oz. \$2.00.**

80-1. **Poinsetta (Summer Poinsetta)**—Makes attractive plants, 18 to 24 ins. high, resembling the regular poinsetta; does well in shade.

81. **Phlox Drummondii**—Easily grown from seed; makes a brilliant display as a Summer bedding plant. White, pink, crimson-white striped, pink with white eye, purple-white striped, yellow-white with pink eye, rose-white striped, or all colors mixed. When ordering, mention color wanted. **Oz. \$1.50.**

82. **Rhodanthe**—Very beautiful; delicate looking; everlasting. Much prized for Winter bouquets. Red and white and both colors mixed.

## Ricinus (Castor Oil Bean)

One of our best ornament-leaved annual plants, largely used for the center beds, being splendidly effective grouped with cannas, Caladiums and other tall plants.



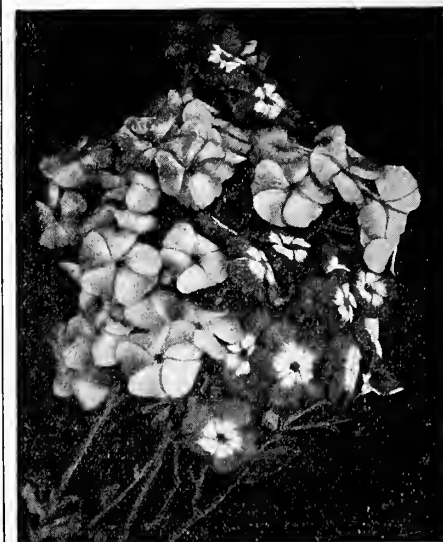
Ricinus or Castor Oil Plant.

83. **New Ricinus or Castor Oil Plant "Red Spire"**—The shapely bushy plants attain a height of about 6 feet, with pretty palmate leaves of a bronzy green with prominent red ribs and veins, and producing through the summer and autumn numerous spikes of flowers or seed pods 9 to 18 inches long, of a brilliant rosy crimson; altogether a most effective semi-tropical plant, valuable alike for its foliage and flowers, and like other Ricinus, absolutely insect-proof. As single specimens or in beds on the lawn, for filling up a corner, or making a hedge or line, this is one of the most ornamental plants ever introduced. **Per pkt. 15c; 40c per oz.**

84. **Zanzibariensis**—Enormous leaves, varying in color from light green to purplish red. 12 feet. **Oz. 25c.**

85. **Sanguines**—Plants attain great dimensions—12 to 14 feet. Leaves a beautiful blood red. **Oz. 25c.**

86. **M.-S. Ricinus Mixture**—Appreciating fully the splendid effects that a fine array of these desirable foliage plants will make in your garden, we have composed a mixture that for elegant blending is unsurpassed. **Oz. 20c.**



Phlox Drummondii.





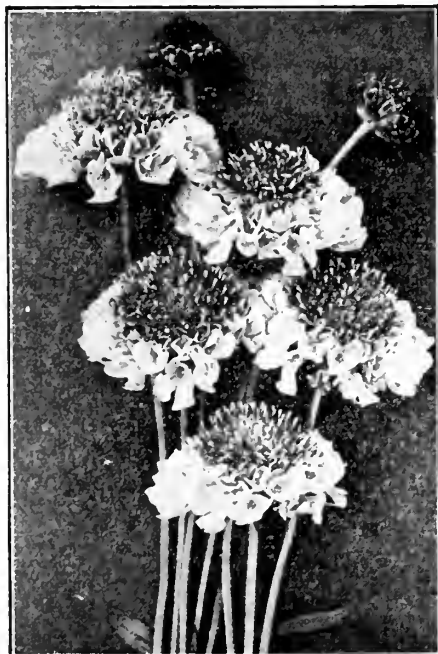
Salvia Scarlet Sage.

**SALVIA (a) (SCARLET SAGE)**

87. *Salvia Splendens*—This popular bedding plant is impossible to be replaced. There is nothing more effective in the Fall or mid-Summer than these bright scarlet flowers. Seed should be started either in the house from February till April or in hotbeds. Best bedder, beautiful scarlet flowers of immense size. **Oz. \$2.00.**

88. *Salvia Bonfire*—Compact bushy plants; two feet high, producing innumerable erect spikes of the most brilliant scarlet flowers. Height, 2½ to 3 feet. ¼ oz. **75c.**

89. *Salpiglossis* (Painted Tongue)—Very beautiful, hardy, annual plants, flowering freely from July to early Autumn. Rich soil should be provided, with plenty of space for plants to develop. Blue, rose, violet, red, purple, yellow, maroon and all colors mixed.



Scabiosa.

90. *Scabiosa* (Mourning Bride, Pin-Cushion Flower, Egyptian Rose, etc.)—Beautiful colored flowers, 2½ feet high; fine for cut flowers.

91. *Scarlet Runner*—Ornamental and useful climbing beans. **Oz. 15c.**

92. *Sensitive Plant* (Mimosa)—A curious and interesting half-hardy annual, with pinkish flowers; leaves close when touched; 1½ feet high.

92-a. *Smilax*—A well-known greenhouse climber, with small dark-green foliage; of great value in floral work. **Oz. 60c.**

92-b. *Schizanthus*—Butterfly or fringed flower.

93. *Statice*—These have become quite popular, the flowers being used extensively by many of the leading florists, the seeds are supplied in the dried flower heads which may be started indoors or sown in the open when the weather gets warm, in any case, in order to secure satisfactory germination the flower heads should be placed in the soil on their sides; 18 inches.

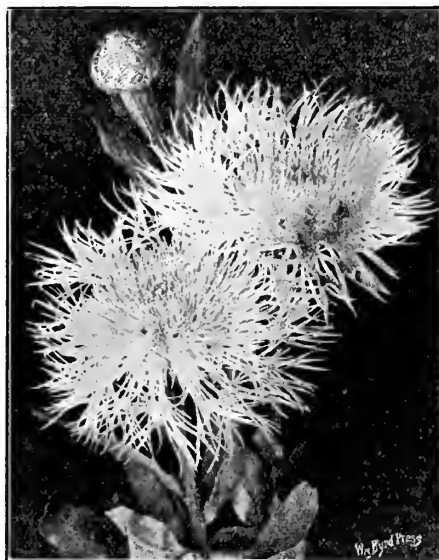
*Bonduelli*. Bright yellow.

*Sinuata Rosea Superba*. Bright rose.

*True Blue*. Rich blue.

*Alba*. White.

All colors mixed.



Sweet Sultan.

94. *Stock*—Half-hardy annual; fine for cutting, bedding or edging, also pot culture; average 1 to 1½ feet. Mixed colors. white, pink, yellow, crimson, light blue, dark blue, separate colors.

*Strawflower*—See *Helichrysum*.

*Sweet Sultan* (*Centaurea Mosehatus*)—Hardy annual; flowers resemble "Bachelor's Buttons," fragrant flower on long stems. See 22.

## Sunflower

### SUNFLOWER (*Helianthus*)

Well known annuals, the small flowering sorts being useful for cutting; the tall varieties are valuable for backgrounds.

#### SMALL FLOWERED SORTS

95. *Cut-and-Come-Again*—Single golden yellow flowers, with petals twisted like a Cactus Dahlia. **Oz. 40c.**

96. *Dwarf Double* (Globe of Gold)—Yellow flowers; 3 feet. **Oz. 40c.**

97. *New Red*—Extra large flowers, some of which are rich chestnut red, others tipped with yellow. **Oz. 60c.**



Salpiglossis (Painted Tongue).

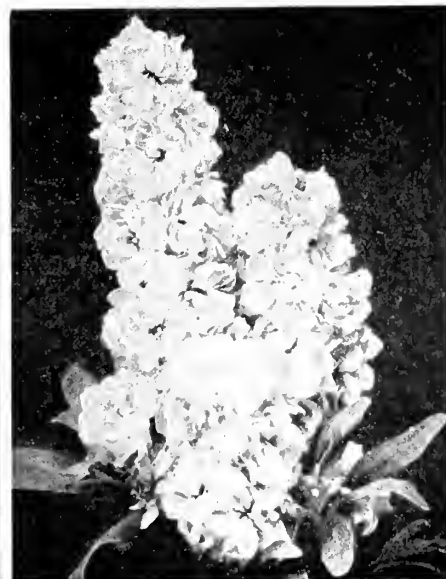
98. *Russian Mammoth*—Immense single yellow flowers on tall heavy stalks; 6 feet. **Oz. 15c.**

99. *Thunbergi* (Black-Eyed Susan)—Beautiful. Very ornamental climber.

100. *Verbena*—Dwarf bedding plants for a gorgeous display during the Summer months cannot be excelled, commencing to flower in July and continuing until frost. Our Mammoth Fancy Strain cannot be surpassed for profusion of bloom and beautiful colors and shades. M-S. Fancy White, Scarlet, Dark Blue, Light Blue, Scarlet-White Eye, Pink-White Eye, Violet-White Eye, and all colors mixed. When ordering state color wanted. **Oz. \$1.50.**

101. *Vinca* (Madagascar Periwinkle)—Dwarf bedding plants with deep green glossy foliage and bright single blossoms of striking beauty; sow early.

102. *Wild Flower Garden*—Fine mixture of old favorite. **Oz. 15c.**



Stocks.

## M.-S. CHOICE ZINNIAS

(YOUTH AND OLD AGE)

The Zinnia is one of the most brilliant, showy and satisfactory of annuals, and has long been a general favorite, and are now enjoying a wide popularity not only for garden decoration but also for cutting. The seed can be sown early in the hotbed or light window and transplanted, or sown later in the open ground. They come into flower early in the summer, and keep on blooming until frost.

### Double Dahlia-flowered Zinnias

This type, the latest development in Zinnias, bears flowers of mammoth size and in form like a perfect decorative Dahlia. As the result of continued painstaking care and selection the size, form and coloring has been much improved and we now offer 7 beautiful and distinct colors as well as the mixture as follows:

**103. Crimson Monarch**—By far the largest and best of the red shades; plants very vigorous.

**104. Dream**—A fine, deep lavender turning to purple, a new, desirable shade in Zinnias.

**105. Exquisite**—One of the most pleasing in the collection; truly Dahlia-flowered as regards form and size; color, light rose, with deep rose center.

**106. Golden State**—A very rich orange yellow; yellow in the bud, turning to an attractive orange when in full bloom.

**107. Purple Prince**—A fine, deep purple, large and well formed.

**108. Oriole**—One of the most beautiful of its class; an immense orange and gold bi-color, changing slightly as it ages, but at all times worthy of the beautiful bird for which it was named.

**109. Polar Bear**—A very large pure white; the best white yet seen in Zinnias.

Price of the above seven varieties 20c per pkt.; large pkt. 35c each; \$3.00 per oz.

**110. Mixed Colors**—A well blended mixture, covering a wide range of colors and shades. Oz. \$1.50; pkt. 10c and 25c.

### SPECIAL OFFERS

Due to the popularity and the success with which Zinnia Seeds are grown into beautiful plants, we are offering seven 20c pkts. (all seven above varieties) in separate colors, each pkt. wrapped separately, for \$1.00; or one 35c pkt. of each seven varieties, for \$2.00, sent postpaid.

Gentlemen:—

Your \$1.00 collection of Dahlia-Flowered Zinnias are the finest I have ever had.

CHAS. E. H. BROWN,  
Waynesboro, Pa.



M.-S.  
Dahlia-Flowered  
Zinnia.

Mr. C. B. Dallam of Guilford tells us that our Dahlia-Flowering Zinnias are finer than any he has had.

### Large-flowering Double Zinnias

This we consider the best Zinnia for bedding, forming bushy, compact plants not over 2 feet high, and bearing large perfect double flowers in good clear distinct colors. The salmon-rose variety is especially effective and is largely used in the finest gardens in the country. Produces flowers of colossal size, specimens measuring from 5 to 6 inches across being not unusual. Plants are of extremely robust habit, attaining a height of about 3 feet and bearing on long strong stems numerous semi-globular, mostly very double flowers, all of the largest size, making them of great value in large beds, borders, etc.; grown under favorable conditions they remain in bloom from early summer to late autumn.

We offer six of the most popular colors, separately, as well as a splendid mixture of many colors, as follows:

- 111. Golden Yellow. Pkt. 10c; oz. 75c.
- 112. Bright Scarlet. Pkt. 10c; oz. 75c.
- 113. White. Pkt. 10c; oz. 75c.
- 114. Salmon Rose. Pkt. 10c; oz. 75c.
- 115. Canary Yellow. Pkt. 10c; oz. 75c.
- 116. Dark Scarlet. Pkt. 10c; oz. 75c.

**COLLECTION:** A packet each of the above colors, 50c.

**117. Giant Flowering Dwarf**—Mixed. All colors. Pkt. 10c; oz. 50c.

### WE LOVE TO HEAR FROM PLEASED GARDENERS

Geo. Tracey, gardener for Mr. F. N. Iglehart, tells us that our Named Spencer Sweet Peas are the finest he has ever seen.

**117-1. Double Lilliput or Pompon Zinnias**—A very pretty type of compact habit not over 15 inches high, bearing in lavish profusion, small densely double flowers on long stems, held well above the foliage. Makes a good line or bed and are of more than usual value for cutting. Pkt. 10c; oz. \$1.00.

**118. Giant Flowering Tall**—Mixed. All colors. Pkt. 10c; oz. 50c.

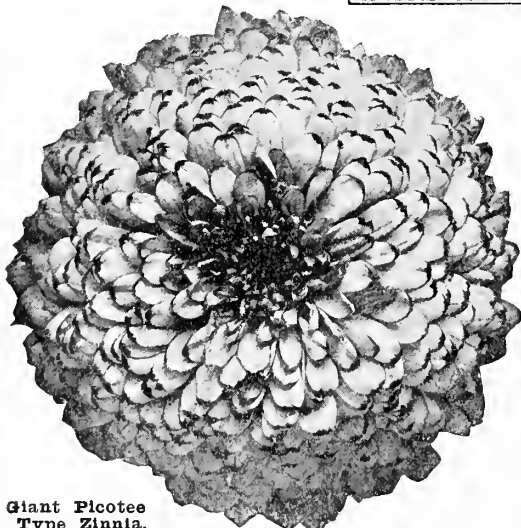
**119. M.-S. Victory Zinnia**—This is a new introduction of Zinnia, forming quille petals. Choice mixed including all beautiful and several new colors. Pkt. 10c; oz. \$1.00.

**120. Curled and Crested Zinnia**—The petals of this beautiful strain are twisted, curled and crested into the most fantastic and graceful forms. The colors comprise all the brilliant shades characteristic of the Zinnia. Pkt. 10c; oz. 75c.

**121. M.-S. Picotee Type Zinnia**—This exquisite new Zinnia, the flowers of which are not quite as large as the double giants, are very effective in appearance, as the edges of the petals are all well marked with a distinct color to the body of the flower, making them very attractive as bedders and cut flowers. Pkt. 10c; oz. \$1.00.



A Field of Dahlia-Flowered Zinnias.



Giant Picotee  
Type Zinnia.

## M.-S. SELECT SWEET PEAS

When Ordering Sweet Peas, Be Sure and  
Specify Number and Letter, Like 1c.



Spencer Sweet Pea.

position fully exposed to the sunlight and air on both sides of row.

They should be sown as early in the season as the ground can be worked, which is usually between the middle of March and the middle of April in the latitude of Baltimore. It is best to make a trench or furrow about 6 inches deep, in the bottom of which sow the seed. Cover with about an inch of soil, pressing it down firmly. As soon as they are above ground thin out to 2 to 4 inches apart; when planted too close they do not attain their full development. They should be staked up either with branches of brush or stout stakes on which wire netting has been fastened. These should be at least 4 feet high, and 5 feet would be better. The flowers should be cut as often as possible to prevent the plants from running to seed, which would stop them from continuing in bloom.

- 1c. Constance Hinton—Best White.
- 2c. Blanche Ferry—Pink and White.
- 3c. Majestic—Deep cream.
- 4c. Blue Bird.
- 5c. Hercules—Pure Pink.
- 6c. King Edward—Pure Red.
- 7c. Margaret Atlee—Rosy Buff.
- 8c. Blue Picotee—White Blue Edge.
- 9c. Austin Frederick Improved—Large pure lavender.
- 10c. Othello Spencer—Deep Maroon.
- 11c. Florence Nightingale—Bluish-Lavender.
- 12c. Crimson King—Solid rich deep crimson.
- 13c. Youth—White edged delicate soft rose pink.

Price on all the above—Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

All Sweet Peas  
Postpaid.

### HOW TO GROW SWEET PEAS

Use 1 oz. of seed  
to 25 ft. of row.

The soil for Sweet Peas should be rich and deep. A good rich loam with plenty of well-rotted manure in it, is the ideal soil for raising good plants that will produce plenty of blooms of good substance. Considerable benefit has been noted from the use of Inoculating Culture. We can supply a special culture for Sweet Peas for 25 cts.—enough for any ordinary garden. They should be in a position

14c. Gleneagles—Immense pale blue lavender. Price, pkt. 25c; oz. 50c; ¼ lb. \$1.50.

15c. Mary Pickford—A beautiful dainty cream pink with just the faintest suffusion of salmon, making the color combination hard to surpass. The flowers are perfectly formed with both standards and wings decidedly waved. "Mary Pickford" is a sturdy grower, producing an abundance of large four-flowered sprays on long, stout stems. Price same as above.

16c. PINKIE—The most vigorous Rose Pink Pea ever introduced. Features—long stems, large flowers, bright color, long blooming season. Pkt. 25c and 50c; oz. \$1.00.

## M.-S. Superb Spencer Mixture

A mixture that cannot be surpassed. Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50.

## M.-S. Gilt Edge Sweet Pea Mixture

This superb mixture is blended by us with extraordinary care from named varieties of the most improved large flowering type, including recent American and European novelties, as well as a great many new hybrids, as yet unnamed, insuring gorgeous color effect. Oz. 15c; ¼ lb. 30c; ½ lb. 50c; lb. 90c.

## M.-S. Winter Flower Spencer Sweet Peas

For indoor forcing. This seed has been grown from originator's stock and can be depended upon for excellent results.

17c. Snow Flake—Large and of the best waved Spencer form. The pure white flowers are borne in wonderful profusion on long stems.

17-c-1. Early White Harmony—A large improved pure white; an extra fine variety.

18c. Early Harmony—Clear lavender throughout; of large size and well waved.

19c. Columbia—Pink standard, white wings.

20c. Yarrowa—A pleasing shade of bright rose pink with lighter wings.

21c. Early Meadow Lark—Large early cream.

22c. Glitters—The sensational orange scarlet, very bright.

23c. Zwolaneck's Rose—A very large and wavy, rich pink.

24c. Early Vulcan—Red.

25c. Early Blue Bird—Blue.

26c. Giant Rose—A large improved Zwolanecks rose color; an extra fine variety.

All the above, 10c per pkt.; ¼ oz. 30c; 1 oz. 60c.

## Hardy Sweet Peas

See 17p. Lathyrus Latifolius.

## All Following Are Perennials

10c per pkt.  
unless otherwise noted.

When Ordering Perennials, Be Sure and Specify Number and Letter, Like 1p.

**Perennials.** Those which live from year to year, such as Aquilegia, Delphinium, Foxglove, etc. Seed may be sown outdoors from June to September and transplanted late in fall into their permanent quarters, and protected during winter with a light litter of straw or leaves.

1p. Anchusia (Italica Dropmore) — 3 to 5 feet high. Blooms May and June, rich gentian blue.

1p1. Aconitum (Monks Hood).

1p2. Alyssum Yellow (Basket of Gold).

2p. Anemone Coronaria—Extra large double and semi-double flowering hybrids. The seed we are offering is grown from a very select strain of real large double and semi-double flowers and contains a large variety of bright showy colors. Anemones are easily grown from seed, bloom early, when good cut flowers are scarce, and are perfectly hardy. Pkt. 10c.

2p1. Arabis (Rock Cross). Early spring flowering plants especially adapted for edging and rockery, 6 inches high, pure white blossom, flowers in May.

2p2. Perennial Aster (Michaelmas Daisy).

3p. Antirrhinum (Snapdragon)—A splendid plant for beds or borders and one of our choicest cut flowers. To have flowers early, sow indoors during February and March. Empress, crimson; Fawn, pink suffused yellow; Golden Queen, yellow;

Purity, white; Silver Pink, pink self and all colors mixed. Oz. \$1.00.

4p. Campanula Media (Canterbury Bell).



Antirrhinum or Snapdragon.

These are strictly biennials and require the following cultural directions: Sow from June 1st till September 1st; when strong enough transplant to a distance of six inches apart, after frost has set in protect with leaves and straw. They flower the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them. Single blue, pink, white or mixed. Oz. 75c.

5p. Candytuft Perennial (Iberis)—White and lilac. ¼ oz. 80c.

5p1. Chinese Lantern Plant—An ornamental plant, forming dense bushes about 2 ft. high, producing freely its bright orange-scarlet lantern-like fruits, which can be cut and dried for winter bouquets; highly interesting.

6p. Coreopsis (Lanceolata Grandiflora)—A hardy perennial bearing a profuse and long-continued succession of large, bold, golden yellow flowers during the whole summer months. Seed sown in March will flower the same season. Height 2½ feet.

7p. Columbine, or Aquilegia—A most desirable border plant. It forms large clumps, blooms early, long and abundantly, is useful for cutting and elegant in habit. Sow seed in the open ground in Spring, preferably where the plants are to grow, and thin to about a foot apart. Sow in the Fall for





Garden Pinks.

flowering the following season. They thrive well under ordinary garden culture. Few hardy perennials are so easily grown from seed, and will give such unalloyed satisfaction. Pink, yellow, blue, scarlet, double white, yellow and mixed. **Oz. 90c.**

**8pl. Daisy, English Double** (*Bellis Perennials*)—Seed should be sown from June 1st till September, transplanted in the Fall, and they will flower the following Spring. If sown in the Spring they will flower in the Autumn; 4 inches; white, pink, crimson and mixed.

**8p2. Shasta Daisy**—Very large; white single flowers on long stems.

**9p. Delphinium** (Hardy Perennial Larkspur)—Highly prepossessing plants of stately appearance; of easiest culture, they are readily the most popular of all hardy plants. Their main season of bloom is in June, but if the flowerspike is cut back promptly it will branch and flower all through Fall. **Formosum:** Deep Blue. **Belladonna:** Light Blue. **Oz. \$3.50.** **White,** **oz. \$1.25.** **Deep Scarlet.** **Oz. \$2.00.** **M.-S. Giant:** Mixed. **\$1.00 per oz.**

**9pl. Delphinium Hybrids Double**—Pkts. 30c and 60c.

**10p. Garden Pinks** (*Dianthus Plumarius*)—These varieties are well adapted for beds and borders; delightful, refreshing, spicy odor; should be in every garden where cut flowers are wanted, and make a fine edging to a hardy border. Single and Double mixed.  $\frac{1}{4}$  oz. 40c each; pkt. 10c.

**11p. Digitalis** (Foxglove)—Handsome ornamental hardy plants of stately growth, succeeding almost anywhere. Produces long spikes of beautiful, tubular-shaped flowers; 4 to 5 feet. Purple, rose, white, spotted mixed and all colors mixed. **Oz. \$1.00.**

**12pl. Flax** (*Linum*)—Bright blue flowers. 24 inches.

**12p2. Gaillardia**—If sown early will bloom first season. Mixed colors. **Oz. 9c.**

**13pl. Geum**—Double flowers of intense orange scarlet, 2 feet high, for sunny location.

**13p2. Gypsophila**—*Paniculata alba*. White. **Oz. 75c.**

**14p. Hibiscus** (Mallow)—These bear very showy flowers, are easily grown and should find a place in every garden. Mixed. 4 feet.

**15pl. Chater's Improved Double Hollyhock** in separate colors: Rose white, salmon, maroon, yellow, Newport pink, crimson and mixed colors. **Oz. \$1.25.**

**15p2. Hollyhock Single**—Choice colors mixed. **Oz. \$1.25.**

**16pl. Heliothis** (Orange Sunflower) (*Pitcheriana*)—A handsome hardy perennial; producing an abundance of deep orange yellow flowers the entire Summer; excellent for cutting; 3 to 4 feet.

**16p2. Helianthus** (Dwarf Sunflower)—Early flowering; yellow.

**16p3. Kudzu Vine** (*Puevaria Thunbergiana*)—The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful

climber, remarkable for its great vigor of growth and its handsome purple flowers. The vine is extremely rapid and dense in growth, perfectly hardy, increasing in size and beauty year after year; fine for arbors, verandas, etc.

**17p. Lathyrus Latifolius** (Perennial Sweet Pea)—Showy hardy climber, fine for covering walls and stumps. Free flowering. Pink, red, white, pearl and mixed colors. **Oz. 75c.**

**17pl. Lythrum** (Loose-Strife) **Roseum Superbum**—A fine hardy perennial, producing spikes of rosy-pink flowers, from July to September. 3 feet.

**17p2. Lavender-Vera**—Fragrant blue flowers.

**17p3. Myosotis** (Forget-Me-Not)—Beautiful, half hardy perennials, succeeding best in moist shady situations. Sown in the spring they will flower in the fall; if wanted for early spring flowering seed should be sown in frames in July or August.

**18p. Alpestris Victoria**—Of bushy habit, bearing large bright blue flowers; very fine; 6 inches.

**18pl. Lupinus**—Hardy perennials of easy culture, with graceful spikes of pea-shaped flowers; May and June; 2 to 3 feet. Blue, Pink, White and mixed colors.

## M.-S. Perfect Pansies

Strictly considered this a biennial, but the fact that it flowers the first season from seed recommends it for an annual. There are actually three seasons in which Pansies can be planted. If started in the house from February till April Pansies will begin to bloom from July on; sown outdoors in May beautiful flowers are produced in the Fall; sown in frames during July and August and transplanting later gives us the main crop of flowers the following spring. Pansies thrive best in moist semi-shade situations.

**19pl. Triumph of Giants**—Flowers of great brilliancy and richness of coloring, including many new and rare shades. **Pkt. 25c; 5 pkts. \$1.00; oz. \$6.00.**

**19p2. Masterpiece** (Fringed Pansy)—Flowers beautifully curled or waved. Exquisite colors. **Pkt. 25c; 5 pkts. \$1.00.**

**20pl. Tufted Pansies or Violas**—While the flowers of the Tufted Pansies are not so large as the regular type, yet they bloom so freely that they are superior to pansies where effect is wanted, the colors being particularly clear and distinct; they also bloom for a longer time. Seed sown in April produces flowering plants by June, and from then on until frost they are a sheet of bloom. All colors Mixed and Blue. **Oz. \$2.50.**

**20p2. M.-S. GIANT EXHIBITION PANSIES**—A blending of our own, containing only the very choicest the specialists in Europe have to offer; it can be relied upon to produce flowers of immense size, very heavy texture and of the most brilliant colors. **Per oz. \$3.00.**

**21p. M.-S. GIANT PANSIES**—In separate colors.

Mention number and variety wanted when ordering.

**Lord Beaconfield**—Purple, violet and white.

**Snow Queen**—Pure white.

**Emperor William**—Indigo blue black, blotched.

**Canary Bird**—Pure yellow.

**King of the Blacks**—Lustrous jet black.

**Lord Baltimore**—Yellow maroon blotches.

**May Queen**—White with violet blotches.

All the above: **\$2.50 per oz.; 10c pkt.**

**22pl. Orientale Poppies**—Enormous flowers of deep, flashing scarlet, entirely hardy anywhere, and mixed; 3 feet.

**22p2. Poppy, Salmon Queen; Pink Shades.**

**22p3. Iceland Poppy**—These dwarf, bright yellow Poppies form one of the chief attractions of the garden through several months. They are most beautiful when grown in masses from seed sown every year; 1 foot.

**23p. Primula Veris Mixed** (Cowslip)—Hardy primroses are among the most prized of our Spring blooming plants, 1 to  $\frac{1}{4}$  feet high. Mixed colors.

**23pl. Primula Chinensis** (Fringed Chinese Primrose)—Pkts. 60c and \$1.00.

**24pl. Pyrethrum**—Handsome hardy perennial plants for the herbaceous border; flowers showy and excellent for cutting. Double White and Single Mixed.

**25p. Phlox Hardy**—For a gorgeous show these are the most satisfactory of all perennial plants. 2 to 3 feet high in all bright colors; seed sown late in Fall will germinate in the Spring; Mixed colors only. **Oz. \$3.00.**

**26p. Rudbeckia-Newman**—One of the finest of autumn-flowering perennials, bearing large flowers. Bright orange-yellow petals surrounding a large black cone.

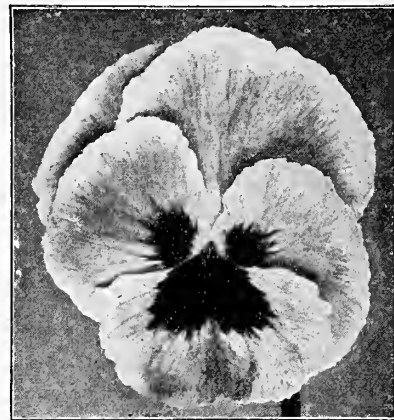
**27p. Statice Latifolia** (Sea Lavender)—Purplish-blue flowers. 2 feet. Splendid hardy perennials, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets.

**27pl. Scabiosa Caucasica** (Blue Bonnet) **Isaac House Strain**—One of the handsomest of hardy perennials, especially valuable for cutting, the blooms lasting a long time in water; color soft lavender-blue; 3 feet.

**28pl. Stokesia** (Cornflower Aster)—Blooms all Summer. Large attractive flowers, resembling asters; fine for cut flowers; two feet high. Blue and mixed.

**28p2. Sweet Rocket** (*Hesperis*)—Excellent for naturalizing among shrubbery or for planting in a permanent border. Fragrant white and purple flowers; 2 to 3 feet. Mixed.

**29p. Sweet William** (*Dianthus Barbatus*)—This is one of the finest of our hardy garden plants; of easy culture, thriving in any good garden soil and lasting for years. The plants grow about  $\frac{1}{4}$  feet high, and form fine clumps; produces fine effects in beds and shrubbery. Single crimson, single red with white eye, single velvety maroon, single white and choicest double mixed, single mixed; all colors. **Oz. 75c.**



Triumph of Giants Pansies.

**30pl. Tritoma** (*Pfitzeri*)—Red Hot Poker, Flame Flower, or Torch Lily.

**30p2. Violet**—Deservedly much in demand because of their profusion of bloom and delicate odor. Single Blue.

**30p3. Veronica Spicata**—Blue flowers,  $\frac{1}{4}$  feet high, June and July.

**31p. WALLFLOWER**—Favorite sweet-scented flowers of fine colors. Splendid for cutting and useful as Spring bedders.

**Paris Extra Early**—A beautiful single variety, which may be treated as an annual, flowering through the summer from seed sown in spring.  $\frac{1}{4}$  oz. 25c.

**Goliath**—A splendid single variety; flowers of a rich, shining red, with a black velvety sheen.

**Single Mixed**—All colors.  $\frac{1}{4}$  oz. 20c; oz. 60c.

**Double-flowering Finest Mixed.**

Our flower seeds have a reputation for their superior quality and for the excellent results obtained by sowing them. It is our constant endeavor to supply only such varieties and strains that will give the best of satisfaction.



# M.-S. SUPERFINE GLADIOLUS OUR BULBS ARE 1½ INS. AND UP.

If to be sent by Parcel Post, add postage at 25c per 100.  
Single bulbs and dozens we deliver free in United States.

**Culture**—What a wonderful stride the Gladiolus has made during recent years. Its popularity today is exceeded by few other flowers, and it has by no means reached its limit. And there are good reasons for this popularity. Failure with it has never been known. Gladiolus will grow in any open position, where there is a fair amount of sun, and bloom well. They are not only showy in the garden, but, when cut with the first flower open will last for 10 days in the house. The newer colorings defy the choicest orchids. Plant bulbs 3 to 4 inches deep, 6 inches apart and stake when 2 feet high. Flowers appear from early July until late in the fall.

The following five priced 25c each; \$2.50 dozen; 6 at dozen rate.

**Dr. F. E. Bennett**—Shows up like "house-a-fire" in any collection. Bright Scarlet, large flower.

**Mrs. Leon Douglas I**—The giant of gladdom. Often reaches 6 ft. tall with large flowers of choice rose pink.

**Purple Glory**—A most striking variety of glorious maroon-purple. Perfect form and heavily ruffled.

**Captain Boynton**—Deep lavender. Large flowers on tall stems, royal and stately.

**Souvenir**—Pure Canary yellow, early flowering, graceful and artistic.

The following six priced 20c each; \$2.00 doz.; 6 at doz. rate.

**Flaming Sword**—A recent introduction from Holland. Deep blood red, early flowering.

**Golden Measure**—Fine golden yellow; very large flowers.

**Mrs. Fred C. Peters**—Gorgeously light blue with deeper markings, many flowers open on long stems.

**Mr. Mark**—A very pleasing shade of light blue with darker blotches; very rare.

**Muriel**—An unusual fine lavender.

**Persia**—Shiny, velvety dark maroon, almost black.

The following seven 15c ea.; \$1.40 doz.; \$9.00 per 100; 50 at 100 rate.

**Anna Eberius**—A deep rich purple; very unusual and particularly attractive.

**Crimson Glow**—A splendid dark red.

**Louise**—Exquisite shade of clear lavender, growing brighter toward the center.

**L'Immaculee**—Pure white, long spikes with many flowers open at one time; very early.

**Los Angeles**—Choice salmon pink; large spike with many flowers; tall stem.

**Virginia**—Wide open flowers of a bright, cheery Christmas Red.

**Tycho Zang**—Very large flower of a Salmon Pink shade, unusual and attractive.

The following six 10c each; \$1.00 doz; \$7.00 per 100; 50 at 100 rate.

**Alice Tiplady**—Large flowers of beautiful orange saffron color. Early.

**Evelyn Kirtland**—Beautiful shade rosy-pink, darker at the edges, with brilliant scarlet blotches on lower petals. Tall spike, extra form and color.

**Herada**—Blossoms of immense size on tall, straight spikes; the color is pure mauve, glistening and clear with deeper marking in throat. An unusual color and very effective as a cut flower.

**Mrs. Dr. Norton**—Very large flowers well set on a tall and graceful spike with 4 to 8 flowers in bloom at one time. Color, white with edges of petals suffused with soft La France pink; a very choice variety.

**Prince of Wales**—Large flowers of salmon pink; very early blooming.

**War**—Deep blood red. Very tall and conspicuous. A fine late variety.

The following eight 60c doz.; \$4.00 per 100; 50 at 100 rate.

**America**—Delicate lavender-pink; flower large size. Very popular.

**Le Marechal Foch**—Beautiful shade of light pink, flowers very large; one of the earliest.

**Wilbrink**—Pale vivid pink with creamy blotch on lower petal; very early and a fine cutflower.

**Mrs. Francis King**—Light scarlet, lower petals splashed deeper red. Tall spikes; very popular.

**Mrs. Frank Pendleton, Jr.**—The color is a delicately flushed salmon pink extending to the reverse side of the petal. The blooms are wide open and are arranged individually on very wiry stems. Each flower is doubly enhanced by a rich maroon blotch on the three lower petals.

**Panama**—Beautiful pink. Distinctive and popular.

**Peace**—Flowers are large of good form, correctly placed on heavy straight spike. Beautiful white with lilac feathering on lower petals.

**Schwaben**—Delicate pale yellow, dark blotch in center. Very popular.

**M.-S. Giant Flowering Mixed Gladiolus**, composed of all named varieties in gorgeous blending. 5c each; 50c doz.; \$3.50 per 100; 50 at 100 rate.

**TREAT GLADIOLUS AND ALL OTHER BULBS WITH SEMESAN**

Prevent scab, hard rot and similar surface-borne diseases from destroying your corns by soaking them in 2 per cent liquid Semesan for seven hours. Destroys diseases, increases sprouting and size of flowers and improves brilliance of color. See page 51 for prices.

## Begonias

(Tuberous Rooted)

Enormous wax-like flowers appear uninterruptedly from June until frost. Start indoors in March, and transfer outdoors about May 1st.

A most charming plant with beautiful foliage. We are offering single and double. Colors red, white, yellow, pink, salmon and mixed colors. Price 25c each; \$2.50 per dozen, postpaid.

## Montbretias

These are one of the brightest and most attractive of summer flowering bulbs and should be planted extensively. The bulbs should be planted out in the early spring, in clumps of a dozen or more, placing the bulbs 3 to 6 inches apart. They should be protected during the winter with a heavy covering of leaves or litter.

**Fire King**. Ficry red.

**George Davison**. In pure golden yellow.

**Etoile de Feux**. Vermillion, clear yellow center.

All above 10c each, \$1.00 dozen, \$6.00 per 100, postpaid.



Type of M.-S. Giant Flowering Mixed Gladiolus.



Gator-Hide Mulch Paper produces larger and more numerous blooms on flowers. Compare the mulched Gladioli on the right with the unmulched on the left.

# M. - S. SUPERB SURE-BLOOMING DAHLIAS

## Exhibition Dahlias Ready for Delivery After April 15th

ALL DAHLIAS  
POSTPAID

### Cultural Directions

Spade or plow the ground to a depth of about 10 inches. As a fertilizer, use sheep manure and quick-acting bone meal, which should be well mixed with the soil. When the soil is properly prepared, dig a hole 6 inches deep, in which to plant the Dahlias. The bulbs should be laid down flat and covered to a depth of 4 inches. Every Dahlia should have from 2½ to 3 feet space and at least 4 feet between the rows.

As soon as the plants are a foot above the ground they should be tied to a stake.

Keep the ground well cultivated and free from weeds. An application of sheep manure about every two weeks will be of great benefit.

Never leave more than one shoot to a plant. You will have better plants and larger flowers if you will allow only one main shoot to a plant.



Decorative Dahlia Jersey Beauty.

### M. S. EXHIBITION DAHLIAS

**A. O. KENNY (Dec.)**—A bronzy-buff flower of good habits. Free bloomer and good keeper. Medium growth. **Roots \$4.00.**

**ADDA PATTERSON (Cac.)**—Excellent white cactus much admired last season. Large blooms on good stiff stems. **Roots \$1.50.**

**AZTEC GLORY (Dec.)**—One of the best, if not the best yellow dahlia growing today. Medium growth, bearing an abundance of large, clear yellow blooms. Cane-stiff stems. **Roots \$3.00.**

**AUNT CLARA (Dec.)**—This dahlia showed up very well this past season. Color is crimson shaded purple. Free, open grower, producing blooms in rapid succession. Flowers are splendid keepers when cut, and we recommend this as one of the best. **Roots \$7.50.**

**BAR. REDFERN (Dec.)**—This dahlia is a beautiful combination of old rose and gold. Petals are long with slight twist, showing both colors. An enormous flower, continuous bloomer on the best of stems. **Roots \$1.50.**

**BEAUTY GEM (Dec.)**—A clear pink bloom produced in abundance well above the foliage. Prolific grower and good keeper. **Roots \$5.00.**

**CHEMARS EUREKA (Dec.)**—One that made an excellent showing on the show floor. A white flower with just a trace of lavender in the center. A very good keeper when cut. Good stems. **Plants only \$2.50.**

**CITY OF TRENTON (Dec.)**—An enormous flower, held erect on perfect stem. Color tangerine, reverse strawberry red. **Roots \$2.00.**

**COLOR SARGENT (Dec.)**—Color is unusual, being a rich, deep salmon bronze. A strong open grower with perfect stems. Flowers keep well after cutting. **Roots \$2.00.**

**DAD (Dec.)**—Brilliant red, produced on fine stems. Large well shaped blooms that will not burn in the sun. We recommend this as one of the best. **Roots \$5.00.**

**DR. WEBB (Cac.)**—A dahlia of real merit. Seedling from Ambassador being a little deeper in color. Plenty of large well-shaped blooms on long stiff stems. Everything that a dahlia requires. **Roots \$3.00.**

**EAGLE ROCK BEAUTY (Semi-Cactus)**—A pleasing combination of pastel pink with creamy-white center. Blooms produced in rapid succession on long perfect stems. **Roots \$2.00.**

**EAGLE ROCK SUNSHINE (Cac.)**—For those who like a cactus of enormous size. Wonderful yellow with no shadings. **Roots 50c.**

**EARLE WILLIAMS (Dec.)**—Large, deep centered flowers on perfect stems, color scarlet tipped white; an occasional bloom being solid red. **Roots 50c.**

**ELITE GLORY (Dec.)**—Massive, brilliant red that is a prize winner. Blooms borne on stalk-like stems, and will go beyond the dahlia lovers expectations. **Roots \$1.00.**

**ELLINOR VANDERVEER (Dec.)**—Color is beautiful rose-pink. A favorite in all gardens. Always a wealth of bloom on good stems. **Roots 75c.**

**ELIZA C. BULL (Dec.)**—Large, perfect white dahlia. Free bloomer on perfect stems. One of the few good whites that does not burn in the sun. **Roots \$1.50.**

**EMILY GASS (Dec.)**—Color white suffused delicate pink. A pleasing combination admired by all. Strong open grower producing blooms on good stems. Bush is prolific grower, attaining height of 7 feet. **Roots \$2.50.**

**EVA L. QUADLING (Dec.)**—Immense full-centered blooms, held well above the foliage, petals folding back around the cane-stiff stems. Ox-blood red, one that is admired by all lovers of red dahlias. An excellent bloom for both exhibition and cutting, one that we recommend highly. **Roots \$4.00.**

**FORDHOOK MARVEL (Dec.)**—Salmon shading to reddish copper. A strong healthy grower, producing large well shaped flowers in abundance. **Green plants only. Roots \$3.00.**

**F. T. D. (Dec.)**—A prize-winning tyrian shaded flower of good size and substance. Flowers are held well above the foliage on good stems. **Roots \$1.00.**

**FORT MONMOUTH (Dec.)**—Color of this wonderful creation is a rich claret with no shadings. Flowers are of immense size, well formed and has high centers. A consistent prize-winner wherever shown. Prolific grower and bloomer on long perfect stems. A giant in the dahlia world. **Roots \$3.00.**

**GALLI-CURCI (Dec.)**—A strong semi-dwarf grower, producing large deep perfect blooms in abundance on stiff stems. Brilliant salmon-orange with gold suffusion. Admired wherever shown. **Roots \$3.00.**

**GOLDEN SONNE (Cac.)**—Clear golden yellow shading to a soft salmon rose. A prize-winner wherever shown. **Green plants only. 25c.**

**HATHOR (Dec.)**—Pale red with lighter shadings. Tall open grower producing fine blooms on good stems. **Roots \$1.50.**

**IDA PERKINS (Dec.)**—Our choice among the whites. Large blooms of excellent form, good high centers and a profuse bloomer on cane-stiff stems. **Roots \$2.00.**

**JANE COWL (Dec.)**—Impossible to say too much about this superior dahlia. Has been one of the most desired ones since its origination. Warm buff and old gold shadings. Immense full-centred blooms carried high above the foliage. Excellent bloomer and rapid grower. **Roots \$2.00.**

**JEAN HARE (Cac.)**—Golden yellow shading to a bronze as it develops. A most attractive variety due to its peculiar formation. Large flowers borne on good stems. Medium growth. **Roots \$2.00.**

**JERSEY'S BEACON (Dec.)**—One of the old favorites seen in most gardens. Chinese scarlet with lighter reverse. Good stems and continuous bloomer. **Roots 50c.**

**JERSEY'S BEAUTY (Dec.)**—Listed under special dahlias, page 41.

**KATHLEEN NORRIS (Dec.)**—In our estimation this is one of the best originations in the dahlia world today. Immense perfect blooms born on long, stiff stems. Dark green leathery foliage that is insect resistant. Color is true rose pink with no shadings. A real exhibition variety that scores heavily wherever shown. **Green plants only. \$2.50.**

**KEMP'S VIOLET WONDER (Dec.)**—A good, strong grower. Producing a wealth of beautiful blooms. Color naphthaline violet, with an undertone of royal purple. The best of stems, a good keeper both in the garden and as a cut flower. One of the best. **Roots \$3.00.**

**KING MIDAS (Dec.)**—A good exhibition yellow of the highest type. It has high, full centers during the entire season, and sure to please. **Roots \$5.00.**

**KING SOLOMON (Cac.)**—A consistent prize-winner in the orange class. Color orange-buff. Long twisted petals form a beautiful flower. Good stems. **Roots \$1.00.**

**MARG. W. WILSON (Dec.)**—Large flowers, produced on stiff stems well above the foliage. Opalescent pink. **Roots 50c.**

## M.-S. EXHIBITION DAHLIAS—Continued

**MINNIE EASTMAN (Cac.)**—Bright flame with undershadows of deep yellow. Long straight stems and a wealth of blooms. Bush growth 5 feet. **Roots \$3.00.**

**MIRAFLORES (Cac.)**—Color, white tinted violet pink. Semi-dwarf bush with large blooms on stiff stems. **Roots \$1.00.**

**MRS. A. B. SEAL (Dec.)**—Another of the "funds" of the dahlia world. Color, old rose without shadings. Strong and upright grower attaining the height of 6 feet. Large blooms held erect on the very best of stems. One that we recommend without reservations. **Roots \$5.00.**

**NANCY SUE LANG (Dec.)**—Star-like flower; red, tipped gold. A wonderful combination for those who like color. Bush a healthy robust grower. Foliage tough and insect resistant. Immense blooms on perfect stems. **Roots \$2.00.**

**PRIDE OF STRATFORD (Dec.)**—A dahlia that is admired by many. Color, cadmium orange, shading to light orange at base of petals. Large blooms, perfect throughout entire season. Stems excellent. **Roots \$1.50.**

**QUEEN OF THE GARDEN BEAUTIFUL (Dec.)**—An immense primrose yellow. Large, heavy blooms carried on good stems well above the foliage. **Roots \$2.00.**

**ROBERT SCOTT (Dec.)**—A bright apricot yellow dahlia with shades of rose. Flowers are large and deep, of good form, on excellent stems. **Roots 50c.**

**SANHICAN'S BLUE BIRD (Dec.)**—An attractive flower of good size and substance. Color, near blue, with outer petals of bright violet. Bush growth semi-dwarf, stems perfect. **Roots 50c.**

**SEAL'S CALIFORNIAN (Dec.)**—Bright golden yellow at center, shading lighter toward outer petals. Held high above foliage on cane-stiff stems. An asset to any garden. **Roots \$4.00.**

**SISKIYOU (Cac.)**—A dahlia that has won numerous times for largest bloom in the show. Color, pink tinted mauve. Stems long and erect. **Roots \$1.00.**

**THOMAS EDISON (Dec.)**—A dahlia in a class by itself. Royal purple with no apparent shadings. Stag-horn shaped petals give this flower an odd but pleasing appearance. Strong, open grower with insect resistant foliage. Stems are perfect holding the numerous blooms upright at all times. **Roots \$7.50.**

**TREASURE ISLAND (Dec.)**—Color, bright apricot with gold and rose suffusions. Strong, rapid grower producing large well-shaped blooms on long stiff stems. A regular prize-winner wherever shown. **Green plants only. \$2.00.**

**WALDHEIM SUNSHINE (Dec.)**—A giant, yet very graceful. A true deep yellow. There is a slight golden suffusion around the center. The bush is strong and grows very rapidly, producing well-shaped blooms on perfect stems. **Roots \$4.00.**

**WATCHUNG SUNRISE (Dec.)**—A sturdy upright grower, producing large well-shaped blooms on stems sometimes 4 feet in length. Stems are cane stiff at all times, holding the bloom erect. Color, golden suffused pink. Petals fold back to the stems, sometimes resembling a large ball. **Roots \$2.50.**

**WATCHUNG WONDER (Dec.)**—A rich royal red with a touch of gold at center of bloom, occasionally appearing on tips of petals. This dahlia, without a doubt, is one of the greatest reds of the day. Large, perfect shaped blooms are produced on top of the stalk like stems. Bush is strong upright grower. **Green plants only. \$3.00.**

**WM. HOGAN (Dec.)**—A very good variegated flower, red and white. Large blooms on good stems. One that is liked by all. **Roots \$3.00.**

**YANKEE KING (Dec.)**—Immense blooms of coppery rose and old gold. Early and free bloomer. Stems are strong and of remarkable length. Foliage leathery and insect resistant. Blooms are large and full throughout season. **Roots \$1.00.**

Plants may be had of the above varieties at one-half the price of tubers after May 1st.

## M.-S. SPECIAL DAHLIAS

## Decorative

**F. L. MILLIS**—Yellow, base shading to orange. **50c.**

**JERSEY'S BEAUTY**—This is certainly a beauty and should be in every garden on account of its wonderful color and stem—in a class by itself—a beautiful pink. **50c.**

**LA PALOMA**—Orange chrome, yellow center, flaked white, 8-inch flower, fine. **50c.**

**MINA BURGLE**—A glowing and most brilliant scarlet. **25c.**

**MRS. I. de ver WARNER**—Deep mauve-pink. One of the very best dahlias grown. Long stiff stems and excellent for cut-flowers. **50c.**

**ORA DOW**—A beautiful velvety maroon, effectively tipped white. **25c.**

**PRIDE OF CALIFORNIA**—Called the "American Beauty" dahlia. Winner of gold and silver medals. Huge crimson red flowers produced on long straight stems. **25c.**

**SNOWDRIFT**—A giant, clear white. The flower has good depth with broad waxy petals of the true decorative type. **50c.**

**SOUVENIR DE GUSTAVE DOAZON**. The color is a pleasing shade of orange-red. Long stems. **25c.**

**WILHELM MILLER**—Very brilliant purple. This is a fine variety. **25c.**

Special Offer: One of each of the above ten, \$3.00.

One of each of the above 25c varieties, \$1.00—5 Roots.

One of each of the above 50c varieties, \$2.25—5 Roots.

## M.-S. SPECIAL DAHLIAS

## Cactus and Hybrid Cactus

**BRIDE'S BOUQUET (Hybrid)**—An ideal white cactus and profuse bloomer, extra long stems, and a Dahlia that stands up well when cut. **50c.**

**LIBELLE (Straight)**—Clear, deep rose-purple. **25c.**

**MRS. C. B. BENEDICT (Hybrid)**—A new seedling, 8 to 10 inches across. A clear light yellow; one of the largest grown; a wonderful flower. **50c.**

**ROYCROFT**—A new cactus. Golden brown, very free flowering. 6 to 7 inch flower. Stems long and a wonderful bloom. **50c.**

**TUSTU**—The color is perfectly gorgeous—a beautiful velvety maroon. The petals are very long, tightly quilled. We can highly recommend this variety. **35c.**

**WASHINGTON CITY**—A gigantic pure white, star-like flower. It has a long stem and holds its flower erect. **50c.**

Special Offer: One of each of the above six, \$2.25.

## Peony-Flowered Dahlias

**CAECILIA**—A magnificent flower of great individuality; one that will give perfect satisfaction. A wonderfully large creamy-white flower. **25c.**

**ELLEN E. KELLEY**. A long-stemmed free-flowering golden yellow variety. **25c.**

**LATONA**—An unusual blending of orange, buff and yellow. Flowers are nearly full to the center, and produced freely, upon good stems. **25c.**

**MRS. BOWEN TUFTS**—Deep rosy-purple blossoms, which are produced well above the foliage upon long, graceful stems. **25c.**

Special Offer: One of each of the above four, 90c.

## Ball or Show Dahlias

**A. D. LIVONI**. Beautiful soft pink. Well formed flowers with long stems. Free flowering. **25c.**

**IMPERIAL**—Deep purplish-maroon. **25c.**

**MAUDE ADAMS**—Ideal new show dahlia. The color is a pure snowy white, very effectively overlaid clear delicate pink. **25c.**

**MISS HELEN HOLLIS**—Gigantic scarlet show dahlia. Deep scarlet. Blossoms are on long, stiff stems, well above foliage. **25c.**

**PRINCESS VICTORIA**—Pure canary yellow. Long stems, perfect form and free bloomer. **25c.**

Special Offer: One of each of the above five, \$1.00.

## Single Dahlias

**ACHIEVEMENT (Collarette)**—The flower is a clear, rich velvety maroon; collarette, a beautiful snowy white, very daintily overlaid with a delicate shade of pinkish-crimson. **25c.**

**AUBRIGHT BEAUTY**—A pure, waxy white variety. Very new. **25c.**

**ROSE PINK CENTURY**—A rose-pink shaded. Very large variety and without doubt the best of its color. **25c.**

Special Offer: One of each three, 60c.

## Pompon Dahlias

**AMBER QUEEN**—Rich, clear amber, shaded apricot. **25c.**

**GOLDEN QUEEN (Alexander)**—The most perfect yellow Pompon to date. **25c.**

**LITTLE MARION (Alexander)**—The ground color is a soft salmon-pink with a veining of crimson through each petal and effectively tipped with a light reddish amber. **25c.**

**LITTLE BEAUTY**—Soft pink. **25c.**

**SNOW CLAD**—Small white, free. **25c.**

**RAPHAEL**—Very dark maroon of extra fine form. **35c.**

Special Offer: One of each of the above six, \$1.25.

## STORAGE OF DAHLIA ROOTS

The storage of Dahlia Roots over winter is not difficult if one has a comparatively cool cellar. The plants should be cut down after the frost has killed the tops and a few days later, or at least before hard freezing sets in, the roots should be carefully dug, and after they are dry, they should be packed in boxes and completely covered with peat moss; this material is unquestionably the most suitable for this purpose, as it prevents the roots from shriveling. The box containing the roots should be stored in the coolest part of the cellar, but where they are safe from frost.

## CARE OF GREEN DAHLIA PLANTS

Green plants raised from cuttings by specialists, are equally valuable as roots and enable the gardener to secure the newer sorts at a lower cost. Planted out in early June, the plants, if pinched back once, that is, having their tops removed, will make rapid progress and flower almost as soon as roots.

## M. - S. Superfine Canna Bulbs

**Culture**—Canna tubers should not be put into the ground until the shoot bears a flower and these shoots are being constantly produced throughout the blooming season.

**Note**—Our prices are for dormant roots in strong divisions of two and three eyes. After May 1st our stock of roots is usually sold, at which time we can fill orders with plants of some varieties.

**Apricot**—We consider this canna of unusual merit and especially valuable. Has healthy bright green foliage growing about four feet. Color mixture of buff and salmon.

**Mrs. Alfred F. Conard**—Gigantic flowers borne in immense clusters; color, delightful salmon pink, a shade which becomes more brilliant as the flower develops; foliage light green; 4 feet.

**Eureka**—The best white variety; free bloomer; green foliage. 4 feet.

**Florence Vaughan**—Yellow, spotted crimson; green foliage. 5 feet.

**King Humbert**—Truly a king among the Cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad deep bronze foliage. It grows 4 feet high and is splendid either as a center, edged with a dwarf yellow canna, or vice versa, placing it around a center of a tall yellow variety.

**Yellow King Humbert**. A sport from King Humbert and a majestic variety, with massive foliage; flowers golden yellow, dotted red; green foliage; 4½ ft.

**City of Portland**—Flowers of large size on heavy trusses; color, glowing pink; profuse bloomer; green foliage; 3½ feet.

**Richard Wallace**—Light yellow; green foliage. 4½ feet.

**The President**—This splendid new variety produces immense flowers of a rich, glowing scarlet; green foliage. 3½ feet.

**Wyoming**—Orange chrome red; bronze foliage. 6½ feet.

**All Varieties:** 15c each; \$1.50 doz.; 100, \$10.00; 50 at 100 rate.

**All Above Varieties** not labeled, 10c each; \$1.00 doz., all postpaid.

In almost every private garden, in all public parks and in most of the large cemeteries, Cannas are used with the greatest effect to adorn the surroundings. It is difficult to convey in language an idea of the beauty of the Canna plant and flower.

They commence blooming in June and these shoots are being constantly produced throughout the blooming season.



Cannas.

**IMPROVED TIGER LILY** (Single or Double)—The grandest of the Tigers. Very large pyramids of flowers, orange red, spotted with black, 3 to 5 feet high. Blooms in August. 30c each; \$3.00 per dozen.

**MELPOMENE**—White spotted crimson. 50c each; \$5.00 doz.

**MAGNIFICUM**—Rich crimson. 50c each; \$5.00 doz.

### Fancy-Leaved Caladiums

Most attractive Ornamental Foliage Plants of easy culture. Will do well out of doors in the open as well as in pots in a half-shaded exposure, with plenty moisture and rich humus containing soil. Also as house plant or for conservatories, or in window boxes between ferns or small palms they give a very beautiful effect.

The following five standard varieties will give utmost satisfaction and are selected by specialists for our particular trade.

**Orinoco**—Light pink, transparent center with bright scarlet ribs, dark green edging.

**Snowshower**—Pure white field, veined glossy bright green, extremely showy and most attractive variety.

**Sunset**—Straw yellow ground with coral red and olive green blotches.

**Beethoven**—Moss green, white veins and pink center.

**Mephisto**—Carmine center, edged dark green with carmine blotches.

**Faust**—Rose pink center, edged light green with rose pink blotches.

**Tigridum**—Green and Pink mottled with green edge, distinct pink veins.

**Haldeman**—Pale flesh, white veins, edged green.

**Atrisanguineum**—Moss green mottled and splashed white and scarlet.

Price on all varieties 30c each.

The Entire Collection (9), \$2.00 postpaid.



Fancy Leaved Caladium

### CALADIUM (Elephant Ear)

As center pieces of specimen in flower beds Caladiums answer well. They also make an excellent edging for a hardy bed of grass, for Ricinus and other tall growing plants. When planted in a bed alone, a border of Scarlet Sage removes the one color effect and makes a beautiful contrast. Do not plant Caladiums outdoors until after May 1st, but to get them in early growth they may be started indoors.

**Monster Bulbs**, 20c each; \$2.00 dozen.

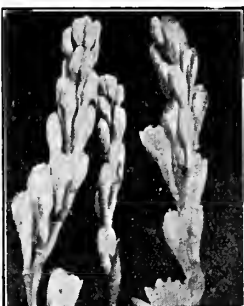
For postage, add 5c each or 25c dozen.



Caladium (Elephant Ear).

## Mammoth Size Double Pearl Tuberoses

**Culture**—One of the most fragrant and popular of the summer flowering bulbs. May be started early in hotbeds or pots or planted in open ground after first of May. The bulbs we offer are not to be compared with cheap ones—ours are superb bloomers. Soaking them over night in lukewarm water promotes rapid growth 5c each; 50c dozen; \$3.25 per 100 (for postage add 5c each or 25c dozen).



Tuberosa.

## Hardy Japanese Garden Lilies

No garden should be without some of these Queens of Flowers. They are perfectly hardy and can be planted in the late fall or early spring. Very seldom they are ready for delivery before early part of December. Plant 6 to 8 inches deep, in sour soil, putting a little sand under the bulbs and dusting them with powdered sulphur and some lime, will insure success.

**AURATUM** (Goldbanded Lily)—Large, graceful flowers, composed of six petals of a delicate ivory-white, thickly studded with chocolate-crimson spots and striped through the center by a golden yellow band. 40c each; \$4.00 per dozen.

### HENEYI (The Yellow Speciosum)

—A new rare and very beautiful Lily from China. It is very hardy, a strong healthy grower, and without doubt one of the best Lilies for garden culture and most effective for massing. The flower stalks, 3 to 5 feet high, carry 5 to 8 large flowers each, the color, a rich apricot-yellow, lightly spotted with brown, and the shape and size of the flowers and the habit of growth has suggested the name "Yellow Speciosum." 50c each; \$5.00 per doz.



Japanese Lily, Auratum.

**SPECIOSUM RUBRUM**, or **ROSEUM**—White, heavily spotted with rich, rosy-crimson spots. 40c each; \$4.00 per dozen.



# Popular Hardy Shrubs and Vines

POSTAGE EXTRA ON  
ALL NURSERY STOCK

## Hedges

**NEW RED BARBERRY**—Rich, lustrous, bronzy red foliage, changing in fall to vivid orange, scarlet and red. Similar to green leaved variety but more brilliant and effective. All that is required to develop its brilliant coloring at all seasons is that it be planted in full exposure to the sun. 75c each; 6 for \$4.00; 12 for \$7.50; postpaid, 85c, \$4.25, \$8.00, respectively.

**JAPAN BARBERRY**—Valuable as specimen plants or for hedges. Drooping yellow flowers followed by bright red berries. Foliage changes to fiery crimson in autumn. 12 to 18 inches, 25c each; 3 for 72c; 12 for \$2.40, postpaid; \$12.00 per 100 not postpaid. 18 to 24 inches, 35c each; 3 for \$1.00; \$3.50 doz., postpaid; \$20.00 per 100, not postpaid.

**HONEY LOCUST HEDGE**—Has fine primae light green foliage. Blooms white in Spring, has large thorns, making an impenetrable hedge. Large plants, \$1.50 doz.; postpaid \$1.75; \$8.00 per 100, not postpaid.

**CALIFORNIA PRIVET**—Cheaper than fences, far more beautiful. The most popular ornamental hedge plant (25 and 50 at 100 rate). Hedge plants are set 6 inches apart, viz.: a 50-foot hedge requires 100 plants. 18 to 24 inches, \$1.00 per dozen, \$6.00 per 100, \$40.00 per 1,000, not postpaid. 30 to 36 inches, \$1.25 per dozen, postpaid; \$8.00 per 100, not postpaid.

## Shrubs

**BRIDAL WREATH** (*Spiraea Van Houttei*)—Beautiful foliage at all times and a fountain of arching snow white blooms during May and June. Very popular. 2 to 3 ft. 30c; 40c postpaid. 3 to 4 ft. 75c; 85c postpaid.

**Buddleia**, Butterfly Shrub Magnifica—The long, graceful and exquisitely fragrant spikes of flowers are of a pleasing, rich violet-rose and are produced in profusion from early June until late autumn. Splendid large plants, 2 year, 75c; postpaid, 85c.

**COMMON SNOWBALL BUSH**—Pure white flowers in dense clusters which look like balls of snow; very attractive. Large plants, 75c; postpaid, 85c.

**GOLDEN BELLS** (*Forsythia Fortunei*)—The first shrub to bloom in the spring, the pendant golden bells appearing before the leaves. 2 to 3 ft., 75c; postpaid, 85c.

**HYDRANGEA PANICULATA**—Perfectly hardy in all parts of the country. White flowers, turning to pink, borne on immense pyramidal panicles nearly a foot in length from July until November. Price, strong plants, 2 to 3 ft., 75c; postpaid, 85c.

**HYDRANGEA ARBORESCENS**—Blossoms large, pure snow-white. Blooms from early in June through August. 2 to 3 ft., 60c; postpaid, 70c.

**LILAC, PURPLE**—An old-time favorite that will always remain popular. Flowers fragrant. 2 to 3 ft., 75c each; 85c postpaid.

**LILAC, WHITE**—Identical with the purple variety excepting that the flowers are white. 2 to 3 ft., 50c each; 60c postpaid.

**MOCK ORANGE** (*Philadelphus*)—An old favorite. Flowers cup-shaped, very fragrant, pure white. 75c each; postpaid 85c.

**PINK BUSH HONEYSUCKLE**—Beautiful pink blossoms. Very attractive. Blooms in May and June. 2 to 3 ft., 75c; postpaid 85c.

**SWEET-SCENTED SHRUB**—Strawberry-scented. Should be in every planting. Price, \$1.00, not postpaid.

**SPIREA ANTHONY WATERER**—Begins to bear flat clusters of rosy-red flowers early in spring and continues in bloom until late in autumn. 75c each; 85c postpaid.

**WEIGELA**—One of the most conspicuous shrubs that we cultivate; flowers either pink, red or white, dwarf, adapted to lawns or gardens. 2 to 3 ft., 75c each; postpaid, 85c.

## Vines

**BOSTON IVY**—Most popular climbing plant for brick or stone walls, buildings, trees, fences, etc. Clings to smoothest surfaces. Strong plants, 2 to 3 ft., 75c each; 85c postpaid.

**SWEET-SCENTED CLEMATIS PANICULATA**—Most satisfactory climbing flowering plant, strong, rapid growth, dense, cheerful green foliage. Flowers in great profusion, creamy white color, very fragrant. 2-year, 75c; postpaid, 85c.

**HARDY PURPLE WISTERIA**—Vigorous, strong-growing vine, lovely, rich violet-blue flowers, deliciously sweet. 2-year grafts, 75c; postpaid, 85c.

**CLEMATIS JACKMANII**—Popular, rich purple. Price, 75c; postpaid, 85c.

**MADEIRA VINE**—Heart-shaped leaves, feathery flowers, delicious fragrance. Here is what you want if a quick growth is desired. Roots, 10c; 3 for 25c, postpaid.

**HARDY JAPANESE KUDZU VINE** (*Pueraria Thunbergiana*), "Jack and the Bean Stalk" Vine—A vine that will grow anywhere in the best or poorest soil. Remarkable and rapid, often making a growth of 50 to 75 feet in one season. Fragrant purple flowers; invaluable for covering porches, etc. Strong plants, 75c; postpaid, 85c.



Use GATOR HIDE MULCH PAPER on your berry plants this season. In the above illustration are two strawberry plants of the same age—Note development of mulched plant at left as compared with unmulched plant at right.

For prices and sizes on MULCH PAPER see pages 44 and 45.

## Strawberries

**Extra Early Varieties**—Charles I and Premier.

**Second Early Varieties**—Senator Dunlap and Dr. Burill.

**Medium Late Varieties**—Bun Speelal, Eaton, Gibson, and Wm. Belt.

**Very Late Varieties**—Aroma, Brandywine and Pearl.

Price on any of the above: 50c dozen; 75c for 25; \$1.25 for 50c; 100, \$1.75, all postpaid. 1,000, \$10.00 at our store, or express collect at customer's station.

**Everbearing Varieties**—Champion and Progressive. 75c doz.; \$1.00 for 25; \$1.75 for 50; \$3.00 per 100, all postpaid. 1,000, \$17.50 at our store or express collect at customer's station.

## Gooseberries

## Blackberries

Gooseberries, Downing Green and Houghton Pale Red—40c each; 50c postpaid; \$3.50 per dozen; \$3.75 postpaid.

## Currants

**CULTIVATED BLACKBERRIES**—Popular varieties. 25c each; 35c postpaid; \$2.00 per dozen; \$2.25 postpaid.

**Currants, Cherry, Bright Red, Fay's Prolific, Dark Red and Red Cross**, 40c each; 50c postpaid; \$3.50 per doz.; \$3.75 postpaid.

## Raspberries

(Extra Strong Plants)

Raspberries should be carefully staked to get large crops. We recommend that well-rotted manure or other suitable fertilizer be dug around the bushes, either in the Fall or early Spring.

**Columbian**—Fruit very large, often an inch in diameter; color black, bordering on purple.

**St. Regis**—Everbearing Raspberries. They yield their first crop of berries in June (the regular season) and yields an equally heavy crop the latter part of August, and continues bearing right up to November.

The above—30c each; 40c postpaid; \$2.00 per doz.; \$2.25 postpaid.

## Grapes

**CACO (Red)**—This new red grape has the most delicious flavor and is of the highest quality of any grape ever tested. It is one of the earliest grapes in ripening. In appearance, it is the most beautiful of hardy grapes, wine red in color with abundant bloom. The berries are unusually large, bunches of good size, compact and of good form. The vines are very strong, vigorous growers, hardy healthy and prolific. Ripens early in September.

**Strong, 2-year vines**, \$1.00 each; postpaid \$1.10; \$10.00 per dozen; postpaid \$10.25.

**CATAWBA**—The standard red grape of eastern America. The vine is vigorous, hardy, and productive. Clusters large, long, and broad. Berries of medium size, dull purplish-red with thick blooms; firm.

**CONCORD**—Best known and most popular variety in America. It succeeds practically everywhere. Its large black berries are borne in large bunches and, being covered with a decided bloom, they are of most attractive appearance. Of good quality.

**NIAGARA**—The most popular white grape, and destined to become more highly valued as time passes. Cluster large and compact; berry large, amber white with white bloom, thin skinned, tender pulp, sweet and luscious. Ripens in mid-season with Concord.

Any of the above three 2-year-old stock, 50c each; postpaid 60c; \$5.00 per dozen; postpaid \$5.25.

**GRAPE PROTECTING BAGS**—See page 64.

## Shade Trees

**Catalpa Bungei (Umbrella Tree)**—5 to 6 ft., \$4.00.

**Dogwood (White)**—5 to 6 ft., \$3.50.

**Dogwood (Red)**—2 to 3 ft., \$5.00.

**Elm, American**—8 to 10 ft., \$2.50.

**Maple, Norway**—8 to 10 ft., \$4.00.

**Maple, Red**—8 to 10 ft., \$4.00.

**Maple, Silver**—8 to 10 ft., \$2.50.

**Maple, Sugar**—8 to 10 ft., \$3.50.

**Magnolia, Pink**—3 ft., \$3.50.

**Oriental Plane**—7 to 8 ft., \$1.75.

**Peach, Double Flowering**—4 to 5 ft., \$2.00.

**Poplar, Carolina and Lombardy**—8 to 10 ft., each \$1.50.

**Poplar, Tulip**—8 to 10 ft., \$3.00.

**Willow, Golden and Weeping**—8 to 10 ft., \$2.50.

Trees cannot be sent by parcel post.

White  
Spruce

*Never an Evergreen Bargain like this!*

## EVERGREEN COLLECTIONS

Everyone wants Evergreen Trees. Their popularity has increased a hundredfold in recent years. Use them for rockeries, foundation or lawn planting, a whole collection for the usual price of one nursery specimen. These are all twice transplanted, sturdy trees (not seedlings), average age five years. Three collections listed below, delivered by Parcel Post prepaid. Safe arrival guaranteed. Delivery March 15th to May 1st.

American  
Arborvitae

### LAWN COLLECTION — \$5.50

- 5 White Spruce ..... 8 to 10 inch
- 5 American Arborvitae ..... 10 to 12 inch
- 5 Douglas Fir ..... 8 to 10 inch
- 5 Mugho Pine ..... 6 to 8 inch

### FOUNDATION COLLECTION — \$7.25

- 2 Pfitzer Juniper ..... 10 to 12 inch
- 2 Mugho Pine ..... 10 to 12 inch
- 2 Pyramidal Arborvitae ..... 12 to 18 inch



Mugho Pine

### ROCK GARDEN COLLECTION — \$4.25

- 1 Pfitzer Juniper ..... 8 to 10 inch
- 1 Savin Juniper ..... 8 to 10 inch
- 1 Mugho Pine ..... 6 to 8 inch
- 1 Woodward Arborvitae ..... 10 to 12 inch
- 1 Douglas Fir ..... 10 to 12 inch
- 1 Pyramidal Arborvitae ..... 10 to 12 inch
- 1 White Spruce ..... 10 to 12 inch
- 1 American Arborvitae ..... 10 to 12 inch

TO AVOID UNNECESSARY HANDLING WE SHIP DIRECT FROM OUR NURSERIES TO ANYWHERE IN THE U. S. A.

Sent by Express and Local Delivery Only

## Fruit Trees

Cannot be Sent by Parcel Post

### APPLES

**McIntosh**—The fruit is a deep red color, subacid in flavor; one of the best.

**Baldwin**—Large, round, bright red, very productive, good flavor.

**Grimes Golden**—Of the highest quality. Tree vigorous and productive.

**York Imperial**—A very popular variety.

**Stayman Winesap**—One of the best.

**Early Harvest**—Early, ripens in June. Extra strong trees, 5 to 6 ft. high, \$1.00 each; \$10.00 per doz.

### PEARS

**Bartlett**—The most popular pear; ripens in September.

**Seckel**—Desirable for pickling and preserving. Price, same as above.

### PEACHES

**Crawford's Early**—Large yellow with red cheek; flesh yellow, juicy and sweet. August.

**Elberta**—Mid-season; large yellow; very popular.

**Late Crawford**—Yellow, freestone; a peach of high quality; ripens last of September.

**Belle of Georgia**—Very early, freestone; white flesh, delicious. Price, \$1.00 each; \$10.00 doz. 5 to 6 feet.

### QUINCE

5 to 6 feet.....\$1.50 each

### CHERRIES

**Black Tartarian**—The best for home garden. June.

**Yellow Spanish**—Wax color, very sweet. June.

**Montmorency (Sour)**—Light red, very acid; popular for pie making. Price, \$1.25 each; \$12.50 doz.

### PLUMS

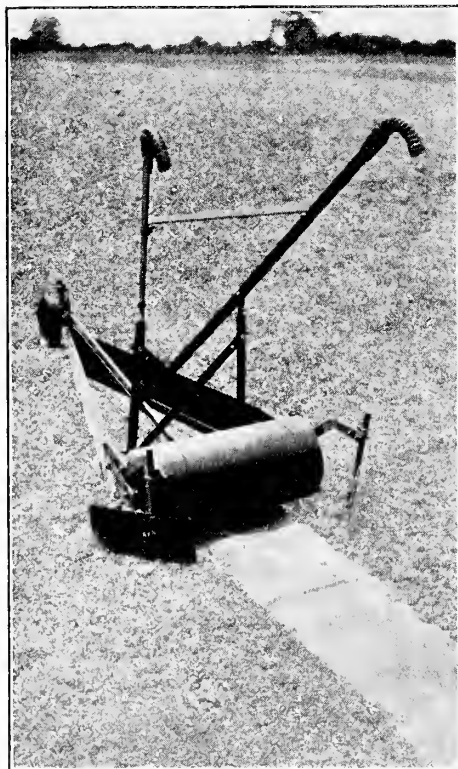
**Abundance**—Amber turning to cherry color. August.

**Burbank**—Orange yellow, overlaid with red.

**Green Gage**—Yellowish green, small fruit. Prices, \$1.00 each; \$10.00 doz.

Local delivery and express only—no freight shipments.

For best results, fruit trees should be sprayed three to four times a season.



## THE EMPIRE PAPER LAYER For Gator-Hide Mulch Paper

The use of Mulch Paper in agriculture has brought about a demand for an easy-to-operate implement for efficient laying of the paper.

Operated by either horse or tractor; blades are hinged at the front so that the one model takes any width paper.

These two blades plane a level surface preparatory to receiving the paper and the two covering blades at the rear turn the soil in over the edges of the paper, giving a complete result of perfectly laid paper with the edges covered by the soil.

The covering blades are adjustable to throw much or little soil over the paper as desired.

Can be used to lay the paper right up to rows of growing plants. For this purpose it is used without the covering blades as the soil which falls back into the path of the Layer is sufficient to cover the edges of the paper.

Equipped with lever-operated front wheel to regulate depth, and handles are adjustable to suit operator. No previous experience is required.

Operator walks behind on the paper. This has been proved entirely practical, as the Empire lays the paper smoothly and without air spaces, on a level bed of soil.

Overall length, seven feet. Shipped knocked down with handles and covering blades removed, in position for 18-inch roll of paper. Shipping weight, 90 lbs.

Price, \$18.50, f. o. b. Baltimore, Maryland.

## The Empire Planthru

The Empire Planthru is a simple implement on the order of and works like a post hole digger and is for planting through mulch paper.

Two handles and two sharp blades cut through the paper and soil removing the soil and leaving a clean hole to receive the plant. Standard size cuts a 3½ inch square hole. Light and easy to use.

Price, \$2.00, f. o. b. Baltimore, Md.



## Earthenware Flower Pots

Sent by Express and Freight Only. Packing at Cost.



	Each.	Dozen.	100.
2 in. ....	\$0.02½	\$0.20	\$1.25
2½ in. ....	.03	.25	1.75
3 in. ....	.04	.30	2.00
4 in. ....	.05	.45	3.00
5 in. ....	.07	.75	5.25
6 in. ....	.10	1.10	7.50
7 in. ....	.16	1.75	13.50
8 in. ....	.25	2.50	18.50
9 in. ....	.40	3.75	27.50
10 in. ....	.50	5.00	35.00
12 in. ....	.90	9.50	70.00
14 in. ....	1.60	16.00	125.00
16 in. ....	3.00		

### BULB PANS

	Each.	Dozen.	100.
4 in. ....	\$0.05	\$0.45	\$3.00
5 in. ....	.07	.75	5.25
6 in. ....	.12	1.25	7.75
7 in. ....	.18	2.00	15.00
8 in. ....	.30	2.75	20.00
9 in. ....	.40	3.75	29.00
10 in. ....	.55	5.50	37.50
12 in. ....	1.00	11.00	82.50

### EARTHENWARE SAUCERS

4 in. ....	\$0.04	\$0.40	9 in. ....	\$0.15	\$1.50
5 in. ....	.06	.50	10 in. ....	.18	1.75
6 in. ....	.07	.65	12 in. ....	.30	3.00
7 in. ....	.10	1.00	14 in. ....	.40	4.00
8 in. ....	.12	1.25			



### THERMOID FLOWER POT SAUCERS

All rubber; break-proof; leak-proof; furnished either green or red. Price: 4½ in., 17c; 6 in., 24c; 7½ in., 40c; 9 in., 49c; 10 in., 78c; 12 in., \$1.07. Postpaid—20c, 28c, 47c, 57c, 86c, \$1.16, respectively.

## Bird's IMPROVED NEPONSET Flower Pots



Extensively used for shipping plants, starting seeds and seedlings in frames and hot-houses.

	Doz.	100.	1,000.		Doz.	100.	1,000.
2 inch. ....	\$0.07	\$0.45	\$3.50	4 inch. ....	\$0.25	\$1.25	\$9.00
2½ inch. ....	.08	.50	3.75	5 inch. ....	.30	1.75	14.00
3 inch. ....	.10	.60	4.25	6 inch. ....	.40	2.50	18.50
3½ inch. ....	.15	.70	5.75	7 inch. ....	.50	3.25	23.00
4 inch. ....	.20	1.00	7.25				

Dozen and 100 lots, postpaid; 1,000 lots, add 25c.

### NEPONSET BLACK FLOWER POTS

These are made in the same form as the familiar Neponset Red Paper Pot, but the paper has been specially treated with a waterproofing saturation, followed by a waterproof coating on both sides of the paper. This treatment gives the paper peculiar properties which are extremely desirable for growing young plants. There is no sign of retarding root growth, but on the contrary these pots seem to encourage healthy growth of young plants. This new development makes it possible to take advantage of the economy, ease and convenience of paper pots for the full growing period of young plants without any damaging or retarding of root growth. Made in the following sizes:

	Doz.	100.	1,000.
2½ inch. ....	\$0.10	\$0.65	\$5.00
3 inch. ....	.20	.85	6.75
4 inch. ....	.30	1.40	11.00

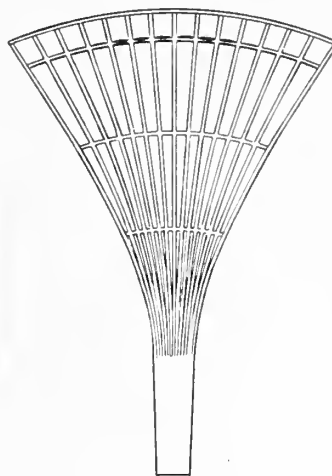
WOODEN TUBS—See page 46.

## Unadilla Garden Furniture

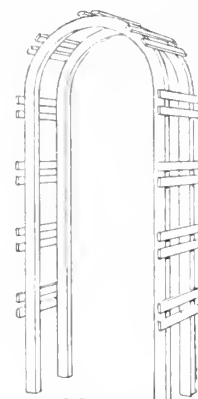
ALL FINISHED IN BEST OUTDOOR PAINT

Catalogue on Request.

No. 80 Rose Arch has a depth of 2 ft. with a width of 4 ft. Price, \$12.50.



No. 55  
Rose Trellis



No. 80  
Rose Arch

Trellis No. 77—8 ft. by 24 ins. wide, top and bottom to be attached on side of house or porch, \$2.50.

Rose Trellis No. 55—6 feet high, over all, with 10 ribs and top spread of 4 feet. Sturdy construction. Price, \$5.00.

Fan Trellis No. 37—6 feet high, over all, with 5 ribs and top spread of 4 feet. Price, \$2.50.

# GATOR-HIDE Mulch Paper



Bigger Crop - Better Crop - Earlier Crop

NO WEEDING

HERE is good news for the man who is really proud of his garden and who wants to achieve success without too great an expenditure of time and labor.

Gator-Hide Mulch Paper stimulates plant growth by increasing the temperature of the soil, by conserving moisture in the soil and by eliminating the weeds that usually steal plant foods no matter how often the grower goes through the back-breaking process of weeding.

Gator-Hide under thou-

sands of tests has proved these four things:

1. That it grows bigger crops.
2. That it grows better, sturdier, higher quality crops.
3. That it brings practically all crops to maturity earlier.
4. That weeds cannot come up in the soil that it covers.

Use Gator-Hide Mulch Paper this year. It's the new way of growing things—the better way—the easier way.

### RETAIL PRICES

#### Type A (light weight)

Width.	Length.	Sq. Ft.	Per Roll
18 in.	900 ft.	1350	\$3.50
36 in.	900 ft.	2700	7.00

#### Type B (heavy weight)

Width.	Length.	Sq. Ft.	Per Roll
18 in.	450 ft.	675	\$3.50
36 in.	450 ft.	1350	7.00

Discounts on large orders on quotation.

Trial Rolls containing 45 feet, Type B Mulch Paper, 18 inches wide. Price, \$1.00; postpaid, \$1.11.

**Pot and Tree Labels—All Painted**

We do not furnish plain labels, they are not satisfactory. Markings are too easily obliterated.

Width.	100	P. P. Wt.	500	1000	P. P. W.	per 1000
4"x½" Pot.	\$0.30	½ lb.	\$1.00	\$2.00	3 lbs.	
5"x½" Pot.	.35	½ lb.	1.25	2.20	4 lbs.	
6"x½" Pot.	.40	¾ lb.	1.50	2.50	5 lbs.	
10"x½" Pot.	.75	1 lb.	3.50	5.80	10 lbs.	
12"x½" Pot.	.90	2 lb.	3.75	7.00	12 lbs.	
8"x½" Garden.	.75	2 lb.	3.50	6.50	9 lbs.	
10"x½" Garden.	1.00	2 lb.	4.25	8.00	10 lbs.	
12"x½" Garden.	1.25	3 lb.	6.00	11.00	12 lbs.	
3½" Cop. Wire Tree.	.35	½ lb.	1.40	2.40	4 lbs.	

**Haas Life Time  
Flower Marker**

Fig. 1.

Copper construction celluloid inset, time support made of pressed steel, will not rust, 18 inches high over all. Support not shown in cut. Will last indefinitely.

Price: 15c each, 2 for 25c, postpaid; \$1.50 dozen, postpaid \$1.58; \$10.00 per 100, postpaid \$10.16. Fig. 1.



Fig. 1.

**Timesaver  
Sweet Pea and  
Vine Trellis**

Dimensions 5 feet by 5 feet over all.

Stands about 4 feet above ground when placed.

Frame made of ¼-inch galvanized cold drawn steel. Green non-fade rope center.

Easily assembled in very few minutes without use of bolts, screws or any tools. Various parts snap solidly together and center is then strung on the frame. Very quickly taken apart again, if desired, for storage purposes.

Full directions for setting up accompany the trellis, which comes, packed one in a package or carton. Price, \$2.25 each.

**Timesaver  
Plant Support**

A long lived, low priced, completely adjustable support, all metal parts being galvanized; java end is green. Can be adjusted as to height and size of loop almost instantly and is practically hidden by the foliage of the plant it supports. There is a proper size for anything in your garden needing support.

No. 2-3 ft. Per dozen \$1.15  
No. 3-A-4 ft. 2.20  
No. 4-5 ft. 2.75

**Adjusto  
Plant Support**

Adjusto Plant Supports comprise a square sturdy hardwood stake equipped with a patented adjustable wire loop. Price, per dozen, 3 ft., \$3.00; 4 ft., \$3.60; 5 ft., \$4.20; 6 ft., \$4.80.

Stakes Without Loops—3 ft., \$1.20 per doz.; 4 ft., \$1.40; 5 ft., \$1.80; 6 ft., \$2.40.  
Extra Wire Loops, \$1.80 per dozen.

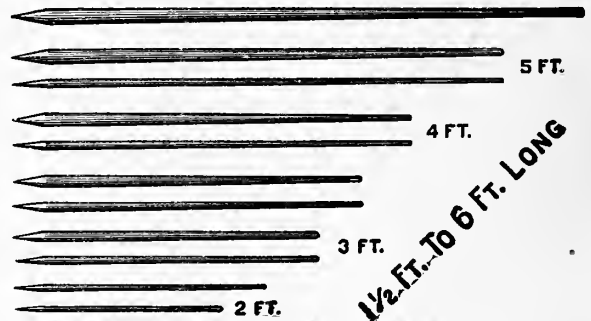
**Cemetery Bouquet Holders**

5 x 9½ inches. Price 25c, postpaid 30c.

**Garden Reels**

Every gardener should have one of these handy reels. Straight rows add greatly to the looks of the garden. These reels are made of heavy iron and will last a life time.

Price, \$1.25; postpaid, \$1.35.

**Green Painted Round Plant Stakes****HEAVY PLANT STAKES**

3 ft., Heavy or Dahlia... Each 12c Per doz. \$1.15 Per 100 \$ 8.60  
4 ft., Heavy or Dahlia... Each 15c Per doz. \$1.55 Per 100 \$11.40  
5 ft., Heavy or Dahlia... Each 20c Per doz. \$2.25 Per 100 \$14.60  
6 ft., Heavy or Dahlia... Each 25c Per doz. \$2.50 Per 100 \$17.90  
P. P. Wgt. Per Doz.: 3 ft. 3 lb.; 4 ft. 5 lb.; 5 ft. 7 lb.; 6 ft. 9 lb.

**LIGHT PLANT STAKES**

1½ ft., Light, each 3c; dozen 25c; 100 \$1.50.  
2 ft., Light, each 4c; dozen 40c; 100 \$2.80.  
2½ ft., Light, each 6c; dozen 60c; 100 \$4.10.  
3 ft., Light, each 8c; dozen 75c; 100 \$5.40.  
Parcel Post Weight, Per Dozen, 1½ ft., ½ lb.; 2 ft., ½ lb.; 2½ ft., 1 lb.; 3 ft., 1½ lb.

**Bamboo Plant Stakes**

	Doz.	100	1000
2 ft., painted green.....	\$0.15	\$0.75	\$ 4.00
3 ft., painted green .....	.20	1.10	7.00
4 ft., painted green .....	.25	1.50	9.00
5 ft., painted green .....	.30	1.75	10.00
6 ft., not painted .....	.35	2.00	11.00
6 ft. not painted, heavy tonkin, fine for dahlias.	Doz. \$1; 100, \$7.50		
5 ft. not painted, heavy tonkin, fine for dahlias.	Doz. 75c; 100, \$5.50		
4 ft. not painted, heavy tonkin, fine for dahlias.	Doz. 60c; 100, \$4.00		

**Pointed Floral or Hyacinth Stakes**

Used for Staking Hyacinths, Tulips, Etc. Dyed Green.  
Price: 12-inch, 7c doz.; 35c, 100; \$2.00. 1,000; 18-inch, 8c doz.; 50c per 100; \$3.00 per 1,000. Postage extra.



"LIGHTNING" WIRE PLANT TIE—For fastening plants to stakes, either wire or wood; can be used many times. 1,000 ties in a pkg. \$2.50, postpaid \$2.57. 100 ties in a pkg. 35c, postpaid 40c.  
**EUREKA STAKE FASTENERS—**1,000, \$3.00; 100, 40c.  
**Twines, Etc.**

Jute Twine—3-ply, 25c ball.  
Binder Twine—Standard; ball, 5 lbs., \$1.25.  
Fodder Twine, or Tarred Sisal—Lb. 15c. Quantity prices furnished on application.  
Flax Lines—Per pair, Sisal, 60c. Weight, 2 lbs.  
Garden Line—150 feet of good cotton line, 35c.

**N. Y. Style Cedar Tubs**

The New York style tree tubs are made of seasoned selected Virginia white cedar, and are rimmed with specially designed metal feet, extra heavy flat steel hoops and liberal-size metal handles. These tubs are painted with the best oil paints—a handsome green on the outside and dark gray inside. Hoops, handles and feet trimmed in jet black.



New York Style.

Richmond Style.

Size.	Top Diameter Inches.	Bottom Diameter Inches.	Depth Inches.	Price Each.	Weight Each Pounds.
No. 1	12	9½	10½	\$2.15	9
No. 2	13	10½	12½	2.80	13
No. 3	14½	12 7/16	14½	3.45	15
No. 3½	16½	14½	15½	4.55	18
No. 4	19 7/16	17½	16½	4.90	21
No. 5	22 7/16	20½	18½	6.40	26

The Richmond Style—Similar to the N. Y. style, but does not have feet nor handles.

Size.	Inside Top Diameter Inches.	Inside Bottom Diameter Inches.	Inside Depth Inches.	Price Each.	Weight Each Pounds.
No. 5	10	7½	9	\$ .75	3
No. 7	12	9	11	1.15	4½
No. 9	14	11	13	1.60	7
No. 11	16	12½	15	2.00	9

Postage extra.



Poisonous Insecticides  
Cannot Be Sent by Mail.

## INSECT DESTROYERS

Articles marked thus \*  
are poison.

### \* Antrol

Ants Destroyed in Their Nests—New method "gets" them at their source—Safe, Permanent, Effective. Prices: Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 95c; Antrol extra containers (each), 15c; Antrol syrup, 4 oz. bottle, 45c; pints, 95c; gallon, \$3.75.

**ANTI-ANT**—Ant destroyer. Non-poisonous. A very effective preparation. Price 4-oz. can 40c, postpaid 45c; 8 oz. can 75c, postpaid 82c.

\***ARSENATE OF LEAD**, See page 51.

\***ARSENATE OF ZINC**—1 lb. 30c; 4 lbs. \$1.00; 100 lbs. \$22.00.

**BEE BRAND INSECT POWDER**—Kills all kind of bugs. Can be used in garden and house, on poultry and animal, etc. Pkt. 15c, 35c and 70c, postpaid.

\***BLACK LEAF 40**—Per 1 oz. bottle 35c; \$1.25 per ½ lb.; 1 lb. \$2.50; 2 lbs. \$3.75; 5 lbs. \$7.00; \$11.85 per 10 lbs.

\***BLUE STONE**—5 lbs. 75c; 10 lbs. \$1.25; 50 lbs. \$5.00; 100 lbs. \$9.00.

\***BORDEAUX ARSENATE**—See page 51.

\***BORDEAUX MIXTURE**—See page 51.

\***CALCIDE**—See page 51.

\***COPPER LIME DUST**—See page 51.

**FISH OIL SOAP**—35c per lb, postpaid 42c; 5 lbs. \$1.25, postpaid \$1.36; 10 lbs. \$2.00, postpaid \$2.16.

**FISH OIL SOAP (Semi-Liquid)**—35c lb., postpaid 42c; 5 lbs. \$1.25, postpaid \$1.36.

**GRAPE DUST**—For mildew and blight. Per 5 lbs. 75c, postpaid 86c.

**DERRISOL, ODORLESS (Non-Poisonous Contact Spray)**—Use one teaspoonful to 1 gallon of water. Kills plant lice, flies, leaf hoppers, thrip and red spider. 1 oz. 35c postpaid; ½ lb. \$1.20, postpaid \$1.27; 1 lb. \$2.00, postpaid \$2.08; 2 lbs. \$3.00, postpaid \$3.10.

\***HELLEBORE**—Per ¼ lb. 25c; 40c per ½ lb.; 1 lb. 70c; \$3.00 per 5 lbs.

\***KAYLOX**—Is an insecticide and fungicide; very effective against all leaf eating insects.

½ Pound ..... \$0.30 5 Pounds ..... \$2.50  
1 Pound ..... .55 10 Pounds ..... 4.50

**KAYSO**—A combined casein spreader and adhesive to be added to spraying material. 2 lbs. 50c, postpaid 58c; 10 lbs. \$2.10, postpaid \$2.26; 50 lbs. \$9.50, postpaid \$10.00; 100 lbs. \$18.00.

**LEMON OIL INSECTICIDE**—½ pt. 35c, postpaid 42c; 1 pt. 60c, postpaid 67c; 1 qt. \$1.00, postpaid \$1.09; ½ gal. \$1.75, postpaid \$1.86; 1 gal. \$3.00, postpaid \$3.16. \$12.00 per 5 gals.; 10 gals. \$22.50.

\***LIME AND SULPHUR (Dry and Liquid)**—See page 51.

\***MAG-O-TITE**—Protects crops against the ravages of the root maggot and other garden pests; also eradicates earth worms from lawns and putting greens. 5 lbs. \$1.50.

**MEXOGEN**—A product scientifically prepared to kill and repel the Mexican Bean Beetle, including the adult, larvae and eggs. Non-poisonous, mailable. ½ pt. 75c, postpaid 82c; 1 qt. \$2.00, postpaid \$2.10; 1 gal. \$6.00, postpaid \$6.16.

\***NICO-FUME (Liquid)**—¼ lb. 75c; \$2.00 per lb.; 4 lbs. \$6.25; 8 lbs. \$11.50.

\***NICO-FUME TOBACCO PAPER**—Per box 24 sheets, \$1.25; \$5.00 per 144 sheets; 288 sheets, \$8.75.

\***NICO-FUME TOBACCO POWDER**—1 lb. \$1.00; 5 lbs. \$3.75; 10 lbs. \$6.85.

\***PARA DICHLOROBENZENE or CRYSTAL GAS**—Controls peach borers, use in June and September. 1 oz. to each tree 1 lb. 50c; 5 lbs. \$2.00; 10 lbs. \$3.50; 25 lbs. \$7.50; 50 lbs. \$14.00.

\***PARIS GREEN (Sherwin Williams)**—Per ¼ lb. 15c; 1 lb. 40c; 2 lbs. 75c; 5 lbs. \$1.75; 14-lb. kits \$4.50. Price subject to change.

\***PYROX**—See page 51.

**RID-O-BUG**—A new pyrethrum insect spray—non-poisonous, very effective. 1½ oz. bottle 50c, postpaid 55c.

**SLUG SHOT (A Non-Poisonous Powder)**—Destroys most insects that infest plant life. 1 lb. 20c, postpaid 27c; 5 lbs. 50c, postpaid 62c. See page 49.

**SULPHUR (Flowers)**—1 lb. 15c, postpaid 22c; 5 lbs. 60c, postpaid 72c; 10 lbs. \$1.00, postpaid \$1.17; 25 lbs. \$2.25, postpaid \$2.57; 100 lbs. \$6.00.

**SULPHO TOBACCO SOAP**—Destroys insects on plants and animals. Pkt. 15c and 25c; 1 lb. 40c, postpaid.

**TOBACCO DUST (Special Dusting or Fumigating)**—1 lb. 10c, postpaid 17c; 5 lbs. 30c, postpaid 42c; 20 lbs. \$1.00, postpaid \$1.26. 100 lbs. \$4.50.

**TOBACCO STEMS**—Per lb. 5c, postpaid 12c; 50 lbs. \$1.75; 100 lbs. \$3.00.

**TREE TANGLEFOOT**—1 lb. 60c, postpaid 68c; 5 lbs. \$2.75, postpaid \$2.87; 10 lbs. \$5.25, postpaid \$5.42. 25 lbs. \$11.00.

**TREE DRESSING FRAMS**—For treating cavities, pruning, cuts, etc. 1 qt. 50c, postpaid 59c; 1 gal. \$1.50, postpaid \$1.66; 5 gals. \$7.50.

### \* Snarol

3 lb. package 95c; 15 lb. package \$3.50. Special prices quoted on 50-pound bags on request.



Quickly Kills Garden Pests—Science provides new, safe method that does the work without fuss. Snails, cutworms, slugs, grasshoppers, sowbugs, earwigs, etc., are exterminated. 1 lb. package 45c; 15 lb. package \$3.50. Special prices quoted on 50-pound bags on request.

## Scalecide

### A BETTER DORMANT SPRAY

A Miscible Oil Product  
Of the Highest Quality

Costs more per gallon, but less  
per tree

The oldest, safest and best known spray for fruit trees, shrubs, and vines. Used by leading fruit growers. Pleasant to use. Controls scale (fall or spring), aphids and pear thripes without Nicotine (delayed dormant). Controls red mite and leaf roller (delayed dormant). Controls psylla. Guaranteed to make a better orchard than lime sulfur, delayed dormant one to 15. Prices—1 qt. 70c, postpaid 80c; 1 gal. \$1.60, postpaid \$1.76; 5 gals. \$6.00; 10 gals. \$10.00; 15 gals. \$13.50; 30 gals. \$24.50; 50 gals. \$32.00. Refund on return of 15, 30 and 50-gallon drums.

## SULFOCIDE

A Better Summer Spray

Is truly a "better summer spray" for fruits, vegetables and flowers. Controls fungus diseases such as scab, brown spot and the like. It gives the foliage a rich green color, and increases the sheen and luster of the fruit. It is a liquid without sediment, and will not clog the nozzles. It costs no more than home made bordeaux. Dilutes one gallon to 200 gallons. 1 pint 70c, postpaid 80c; 1 quart \$1.00, postpaid \$1.10; 1 gallon \$2.75, postpaid \$2.95; 5 gals. \$8.75; 10 gals. \$15.00; 30 gals. \$39.00; 50 gals. \$60.00. Drums not returnable.

**VOLCK** is one of the most powerful insecticides known. Kills Aphids, Red Spider, Mealy Bug, Scale, Caterpillars and most all insects, and prevents mildew and rust. Volck does not burn; it is safe to use. Highly recommended to florists. Send for special circular. Price, ½ pt. 50c, postpaid 57c; 1 pt. 75c, postpaid 82c; 1 qt. \$1.00, postpaid \$1.10; 1 gal. \$3.00, postpaid \$3.16; 5 gals. \$12.50; 14 gals. \$25.00; 28 gals. \$40.00.

### WHY BUGS LEAVE HOME



## Wilson's O. K. Plant Spray

The Insecticide Supreme

For 20 years the leading insecticide of America, for inside and outside spraying. For aphids, thrip, mealy bug, scale, rose bugs and many other insects. ½ pint 40c, postpaid 48c; 1 quart \$1.00, postpaid \$1.10; 1 gal. \$3.00, postpaid \$3.16; 5 gals. \$12.00.

### EVERGREEN HIGHLY EFFECTIVE

— against practically all plant insects both chewing and sucking types (scale insects excepted) including aphids, thrip, leaf hopper, cut worm, canker or currant worm, tarnished plant bug (Aster Beetle), leaf roller, cucumber beetle, cabbage worm, asparagus beetle, tent caterpillar, rose chafer and slug, squash beetle, Mexican Bean Beetle, Japanese beetle, ants, black fly, and many others.

**Non-Poisonous**—Harmless to humans, livestock, birds and pets. Kills only insects. Safe to use and have in home.

Price: 1 oz. bottle 35c postpaid; 6 oz. bottle \$1.00, postpaid \$1.07; 16 oz. bottle \$2.00, postpaid \$2.08; 32 oz. tin \$3.50, postpaid \$3.59; 1 gal. tin \$13.00, postpaid \$13.16.





## Roses Sprayed With



### Stand Out Amazingly Superior The Ideal Spray for Roses and Other Plants

Conquers Mildew and Black-Spot—Fertilizes Through the Foliage



A highly concentrated fungicide invisible on the foliage or blooms. It is the noted Rosenbluth formulae combined with the plant stimulant—HORTOGEN—that results in plant vigor, superb foliage and amazing blooms almost beyond belief.

FUNGTROGEN is an effective and scientific preventative and remedy for mildew, black spot and many fungus diseases of Roses and other plants.

In gardens where FUNGTROGEN and its companion sprays are regularly used, Brown Canker is unknown.

It is equally valuable for rust on carnations and snapdragons grown under glass. It is effective for Phlox, Chrysanthemums, Hollyhocks, Delphiniums, Sweet Peas, Evergreens, etc.

FUNGTROGEN is a complete spray, ready to use when mixed with water to 60 times its volume.

Endorsed by leading Rosarians. Prices, 1/2 pt. 75c, postpaid 82c; pint \$1.25, postpaid \$1.33; quart \$2.00, postpaid \$2.10; 1/2 gal. \$3.50, postpaid \$3.61; 1 gal. \$6.00, postpaid \$6.16.



## Autumn Ground Dressing - Disinfectant

Terogen destroys the spores of fungi of most diseases that have fallen to the ground, as well as the larvae of most insects, including the rose pith borers, rose bugs, aphids and most beetles. Terogen also acts as a valuable fertilizer. Makes sturdy, healthy foliage and helps to prevent chlorosis. In convenient semi-powdered form. It is well to begin using this dressing during the summer, which will lessen the possibility of blackspot and mildew appearing in the fall.

Prices: 1 lb. 75c, postpaid 82c; 2 lbs. \$1.25, postpaid \$1.34; 5 lbs. \$2.75, postpaid \$2.87; 10 lbs. \$4.75, postpaid \$4.91; 25 lbs. \$11.00, postpaid \$11.32; 100 lbs. \$40.00.



### Kills Most Leaf-Eating Insects

A highly effective insecticide for leaf-eating insects, including caterpillars, slug worms, Japanese Beetle, etc., and has definite fungicidal value for blackspot on

roses. An effective destroyer of leaf tier on Chrysanthemums grown under glass, etc.

Use INSECTROGEN alternately, as a companion spray, with the famous fungicide Fungtrogen. This results in unusually fine foliage and blooms heretofore unattainable as to color, form and general beauty. A complete spray—only water is required. Makes sixty times its volume as a spray.

Prices: 4 ozs. 60c; 1/2 pt. \$1.00; pint \$1.75; quart \$2.75; 1/2 gal. \$4.50; gallon \$8.00. Not mailable.

A scientific aphicide, perfected by Rose specialists, that quickly rids your plants of aphids, the destructive tiny green or pink soft bodied insects, commonly called plant lice, found on the tender branches and foliage—weakening the plant and carrying disease.



## Kills Aphis (Plant Lice)

APHISTROGEN also refreshes and invigorates the foliage. APHISTROGEN, while primarily perfected for aphids on Roses, is just as effective when used on other plants, either outdoors or in the house. APHISTROGEN will not turn the foliage yellow. It is invisible and non-poisonous, containing no nicotine sulphate. A complete spray. Simply mix with sixty times its volume of water.

When used alternately with Fungtrogen, the results are especially effective.

Prices: 2 oz. 50c postpaid; 1/2 pt. \$1.25, postpaid \$1.32; 1 pt. \$2.25, postpaid \$2.33; 1 qt. \$3.50, postpaid \$3.59; 1/2 gal. \$6.50, postpaid \$6.61; 1 gal. \$15.00, postpaid \$15.16.



## Spring Ground Dressing and Soil Stabilizer

A remarkable Plant Food, soil stabilizer and ground dressing for your roses. Ferogen should be cultivated into your rose beds in the Spring and early Summer. It supplies vital chemical elements and stimulates to vigorous root action and strong growth. In convenient semi-punctured form. Ferogen re-inforces stable manures, and has been successfully demonstrated at the renowned Rose Gardens at Wallingford, Penna., where even experts from the Agricultural Department concede that they have never seen such specimens.

Prices: 1 lb. 75c, postpaid 82c; 2 lbs. \$1.25, postpaid \$1.34; 5 lbs. \$2.75, postpaid \$2.87; 10 lbs. \$4.75, postpaid \$4.91; 25 lbs. \$11.00, postpaid \$11.32; 100 lbs. \$40.00.



#### Entodust No. 1

A good poison to kill all chewing insects such as beetles, worms, caterpillars, etc., on flowers, shrubs, trees and vegetables. Price, 1 lb. 40c.

#### A=1 Dust No. 2

A good cure for Aphis and Plant Lice and all insects which suck the juice from the plants, also for fumigating greenhouses and conservatories. 1 lb. 60c.

#### D=6 Dust No. 3

To prevent diseases in the vegetable garden. 1 lb. 45c.

#### Pomo Dust No. 4

Prevents and cures mildew and blackspot on roses and other plants. 1 lb. 35c; 5 lbs. \$1.25; 10 lbs. \$2.25; 100 lbs. \$12.00.

#### D=20 Dust No. 5

A combination fungicide and insecticide for chewing insects on vegetables. Price, 1 lb. 50c.

#### All-In-One Dust No. 6

A combination of nicotine and pomo dust. A good dust to use to keep up general good health, prevent disease and attacks of insects. 1 lb. 75c.

NOT MAILABLE

## ATLACIDE NON-POISONOUS WEED KILLER PATENTED DUSTER

Atlacide Non-Poisonous Weed Killer Duster exterminates all undesirable vegetation including Poison Ivy, Canada Thistle, Johnson Grass, etc., without danger of poisoning humans or animals. Simply shake powder from can on the weeds and grasses to be killed. Especially recommended for obtaining weed-free driveways, paths, tennis courts and gutters.

1-lb. DUSTER... 50c each, postpaid 57c (kills 100 sq. ft. of weeds)

3½-lb. DUSTER... \$1.50 each, postpaid \$1.60 (kills 350 sq. ft. of weeds)

### Fairmount Weed Killer



Destroys vegetation wherever applied. One gallon makes 50 gals. of treating liquid to effectively cover 100 to 150 square yards. For driveways, tennis courts, baseball diamonds, and walks, etc. Will not stain marble or stone. For 35 years the successful weed killer.

Prices: Qt. 70c; ½ gal. can, \$1.00; 1 gal. can, \$1.75; 5 gal. can, \$7.25; 30 gal. drum, \$33.00; 55 gal. drum, \$55.00. Not mailable.

### Vermine

For eel, cutworms and wire worms, working in the soil. It can be applied to all vegetation. ½ pt. 40c; 1 pt. 65c; qt. \$1.00; gal. \$3.00.

NOT MAILABLE

# Dust with Pomo-Green



The Leaf-green Dust

AN EASY, EFFECTIVE WAY TO  
*Protect Your Roses*

and other Flowering Plants against Insects and Fungus Diseases  
Without Making the Treatment Conspicuous

Dusting with "leaf-green" Pomo-Green is the protective method used by experts! Best for your garden, too. Pomo-Green is the celebrated Massey Dust made more toxic and colored green.

Roses—Black Spot, Mildew or Chewing Insects are bound to appear.

Pomo-Green prevents and controls these diseases and insects quickly and effectively.

Flowering Plants—Pomo-Green is a specific for the control of Snapdragon Rust, Carnation Rust, Sweet Pea Mildew, Phlox Mildew, Lilac Mildew, and many other fungus diseases of flowering plants and shrubs.

Protect new growth by dusting with Pomo-Green once each week throughout the growing season.

1 pound can..... \$0.50

5 pound carton..... 2.00



One-pound Can.



Five-pound Carton.

Not Mailable



## Non-Poisonous Insecticide

VERY EFFECTIVE AGAINST  
ALL CHEWING INSECTS

Safe to use on Fruits and Vegetables nearly ripe.

Price: 1 lb. 20c, postpaid 27c; 5 lbs. 50c, postpaid 62c.

### Soiltex

TEST FOR ACID SOIL—DOES YOUR SOIL NEED LIME? Soiltex Tells What Your Soil Needs. Postpaid, \$1.00.

## La Motte Soil Teskit

To correctly test your soil, see how sour or how sweet it is, find out what fertilizer is needed. \$1.50 postpaid.

# NON-POISONOUS

# RED ARROW INSECT SPRAY

(Pyrethrum Soap)

## *Prompt Safe Relief from Garden Insects*

Safe because it is harmless to children, adults, domestic animals and useful wild bird life. Safe, also, because it does not injure or stain flowers or foliage. Safe to use on fruits and vegetables.

## Red Arrow Will Kill

Rose Chafers  
Leaf Hoppers  
Aster Beetles  
Aphides  
Cabbage Worms  
Green Flies  
Ants

Thrips  
Mealy Bugs  
Millipedes  
Caterpillars  
Leaf Rollers  
Midge  
Spiders

Tarnished Plant Bugs  
Mexican Bean Beetles  
Japanese Beetles  
Cut Worms  
Dahlia Beetles  
White Flies  
Root Louse

Gentlemen:—

I thank you very kindly for the sample of Red Arrow which you so kindly gave me.

With no means of measuring at hand, I was unable to follow directions to the letter, but I must say the mixture I used was most effective.

I have heard some people say that there were certain kinds of bugs that Red Arrow would not kill, which may be true, but I was unable to find any resisting types about my place. I find it certain and quick death to all caterpillars, ants, bugs, lice, spiders, etc., which were about my yard, and I am also pleased to inform you that it does not in the least stain the most delicate flowers.

Very truly yours,  
J. H. DUNN,  
Miami, Florida.

### ←WHAT A FEW USERS SAY→

Gentlemen:

Please send us by Express two 1-gallon cans of Red Arrow Spray. We have decided to use Red Arrow as our standard spray material.

Very truly yours,  
R. VINCENT JR. & SONS CO.

Scotia, New York.

Gentlemen:—

Recently I purchased some of your "RED ARROW INSECT SPRAY" and am very much pleased with the results obtained.

It completely freed our roses and grape vines from the rose chaffer as well as destroying the green worms which had eaten some of the leaves on our mountain ash tree.

It seems good to have a spray that can be used for so many things instead of having to resort to so many different kinds of spray as we have done in years past.

Yours very truly,  
CHAS. G. S. CHENEY.

Endorsed and used by a host of Federal and State Entomologists, Specialists,  
Flower and Vegetable Growers.

### Literature Mailed on Request

#### PRICES POSTPAID:

1 ounce size .....	\$ .35
1/4 pint .....	1.00
1/2 pint .....	1.75
1 quart .....	6.00
1 gallon .....	20.00





# BOWKERS INSECTICIDES

Here's How to Have the Most Beautiful Flowers and the Most Luscious Vegetables in Your Neighborhood

NOT MAILABLE

## Pyrox

Good Seeds, well-prepared soil, reasonable care and Pyrox Spray. That is the secret of a fine garden—the kind of garden that you are proud to show and which brings a real return.

Thousands of users tell us there is absolutely nothing like Pyrox for making plants produce to the very utmost. It kills their natural enemies so they can put all their energies into the production of big, healthy plants, flowers and vegetables.

You take no chances with Pyrox. It does the work, saving time, money and labor. It kills worms, bugs and insects; prevents the blights and controls the diseases that turn plant leaves yellow, brown or black; and improves foliage—all in one operation. And once sprayed on, Pyrox sticks, making frequent sprayings unnecessary.

Use Pyrox for potatoes, tomatoes, cucumbers, and other vegetables; grapes, small fruits; roses, shrubs and flowers of all kinds. Results will really amaze you.

Pyrox is easy to use. Five minutes and you're ready to spray. No fuss or muss. Simply dip this creamy-smooth paste out of jar or can, add water as directed; stir—and in a few moments you have a perfect mixture that sprays mist-like through the finest nozzles. Pyrox lays a thin protective coating over the whole plant. Sticks like paint. One pound of Pyrox makes 5 to 6 gallons of spray.

The new Spray Guide contains up-to-date spray information of value alike to the home gardener and the commercial grower. You may have a copy free. **Pyrox prices**—1 lb. 50c; 5 lbs. \$1.75; 10 lbs. \$3.00; 25 lbs. \$6.25; 50 lbs. \$10.75; 100 lbs. \$15.50; 300 lbs. \$43.50. Not mailable.

Use Pyrox for your Seed Corn (see page 13).



## Nicotine Pyrox

Pyrox and Nicotine combined. This material can be used where Pyrox is used and in addition kill soft bodied sucking insects. Two sizes—50c and \$1.75.

## Bowker's Powdered Bordeaux Arsenate



Placed on the market only after many years of careful research to produce a combined insecticide and fungicide in powdered form. While as a rule, powdered fungicides are not as effective in controlling blights, rusts and rots as a paste material (like Pyrox), Bowker's Powdered Bordeaux Arsenate provides a very useful material. Being light and very finely divided, Bowker's Bordeaux Arsenate mixes readily, sprays without clogging, and adheres to the foliage for

many days. Used for killing leaf-chewing insects and controlling fungous diseases on vegetables and small fruits. **Prices**—1 lb. 35c; 4 lbs. \$1.25; 48 lbs. \$11.00.

## Bowker's Copper Lime Dusts

These dusts have met with marked favor among the users of these products because of their exceptional quality. This quality is the result of long experience in their manufacture and a clear understanding of what constitutes quality in a dust. With the Bowker factory right here in Baltimore we can make up special dusts according to your own specifications. Ask for prices. **20-20-60 Mixture** has met with great success in destroying the Mexican Bean Beetle. 100 lbs. \$9.00.

## Bowker's Powdered Bordeaux Mixture

A powerful fungicide for the control of blights, rusts and rots on any crops where bordeaux is recommended by the experiment stations or other agricultural authorities. Fine, light and fluffy, Bowker's Bordeaux mixes easily and completely. Hence it covers evenly and sticks well to the foliage. When bugs or worms are present use Bowker's Pyrox in place of Bordeaux, as Bordeaux contains no poison. **Prices**—1 lb. 30c; 4 lbs. 75c.



## Use Bowker's Powdered Insecticides

Bowker's powdered materials contain no cheap stickers or spreaders. You may wonder why this is so, believing that a spreader and sticker is necessary. You never heard of a talcum powder manufacturer putting a spreader or sticker in his product, yet talcum powder spreads and sticks to perfection. No spreaders or stickers are used because of the fineness of the material which makes this unnecessary.

Take Bowker's Arsenate of Lead for instance. Run your hand through it and you will find that a lot of it clings like talc. Try to blow it off. See how much of it still sticks. This is because it is so fine. It is the extra fine material like that remaining on your hand which does the most damage to the insect. It dissolves more quickly than coarse material and it must dissolve before it can kill. It works just like sugar. Powdered sugar will dissolve much quicker than granulated. Coarse material will frequently pass through the insect without dissolving.

The fineness of Bowker's Arsenate of Lead and other powdered materials is assured because it must pass a 200-mesh screen before leaving the factory. Actually much of it will pass a 400-mesh screen. You will realize how fine this really is when you consider that a 200-mesh screen has 40,000 holes to the square inch. The finer the material, the more effective it is,—the better it sticks and the better it kills.



## Bowker's Calcide

(High Grade Calcium Arsenate)

Bowker's Calcide is excellent for potatoes and truck crops; it is cheaper than Lead Arsenate. Although formerly used only in the South to kill the cotton boll weevil, Calcide is now employed in other sections to kill such pests as potato bugs, bean beetles, and other leaf-chewing insects. Calcide may be applied either wet or dry. **Prices**—1 lb. 25c; 4 lbs. 60c; 48 lbs. \$5.76.

## Bowker's Lime Sulphur, Dry and Liquid

Bowker's Dry Lime Sulphur is made by a special patented process which keeps the product in good physical condition, thus insuring its going into suspension quickly. Dry Lime Sulphur does not have some of the disagreeable features of the Liquid and is now generally accepted by fruit growers everywhere. It is used as either a dormant spray to kill scale or as a summer spray to control fungous diseases such as scab, rot, etc. 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.00; 25 lbs. \$4.00; 50 lbs. \$7.00; 100 lbs. \$12.00; 200 lbs. \$22.00.



Bowker's Liquid Lime Sulphur (concentrated) is prepared from the highest grade of lime and the purest sulphur; combined in especially designed apparatus, and in quantities so large as to allow plenty of time for storage and settling. Thus the solution which reaches you is cherry red in color, clear and sparkling. It will not crystallize, thicken up in the barrel, or clog the finest nozzles. If used according to directions, Bowker's Lime Sulphur will kill every scale that it touches. 1 qt. 40c; 1 gal. 90c; 5 gals. \$3.00; 10 gals. \$5.00; 50 gals. \$10.00.

## Bowker's Powdered Arsenate of Lead

The result of 33 years of manufacturing this product—a longer experience than that of anyone else in the business. Bowker's can be used either as a spray or as a dust for all external-chewing insects. It will not burn or injure your crop. Unlike some brands, Bowker's mixes easily, stays well in suspension and is so finely divided that you get an even distribution, with no trouble from clogged nozzles. Sticks to the foliage thru heaviest rains. In Bowker's you obtain unusual efficiency at no additional cost. **Prices**—1 lb. 30c; 4 lbs. 80c; 48 lbs. \$8.50.



# Fertilizers and Plant Foods

Fertilizer and  
Plant Foods  
Postage extra.

All prices on Fertilizers are subject to Market Changes.

**ADCO**—Don't waste garden rubbish. Turn it into manure with ADCO. ADCO is a powder which, mixed with almost any non-woody vegetable waste, and kept wet, gradually converts it into manure. 25 lbs. of ADCO make  $\frac{1}{2}$  ton of manure. Price, 150 lbs. \$10.50; 25 lbs. \$2.00.

**ASPARAGUS SALT**—Applied in spring 600 to 800 lbs. per acre, for destroying weeds. 56 lb. \$1.25; original sack, 140 lbs. \$2.25.

**ALUMINUM SULPHATE** (For Rhododendrons and Azaleas). 1 lb. 15c; 2 lbs. 25c; 5 lbs. 60c; \$6.25 per 100 lbs.

**BLOOD (DRIED)**—For indoor and outdoor culture of flowering plants, like roses, carnations, etc. Its chief element being nitrogen. Fine for ferns. 1 lb. 15c; 5 lbs. 60c; \$1.00 per 10 lbs.; 25 lbs. \$2.00; \$3.75 per 50 lbs.; 100 lbs. \$7.00; \$12.00 per 200 lbs.

**PURE BONE MEAL** (3-50)—Splendid article for building up worn-out soil, lawns, etc. 1 lb. 6c; 10 lbs. 50c; 25 lbs. \$1.25; 50 lbs. \$2.00; 100 lbs. \$3.50; 200 lbs. \$6.00; ton \$48.00. Quick acting.

**RAW BONE MEAL** (4 $\frac{1}{2}$ -48)—Free from acid. Unusually rich in nitrogen and phosphoric acid, the two principal plant foods. We recommend this especially for greenhouses or any purpose where a high-class slow acting fertilizer counts. 1 lb. 6c; 10 lbs. 60c; 25 lbs. \$1.25; 50 lbs. \$2.15; 100 lbs. \$3.75; 167 lbs. \$6.00; ton, \$55.00. Slow acting.

**BONE FLOUR**—Finely pulverized and bolted. Effective immediately. For rose growing this cannot be excelled. Rich in phosphoric acid and ammonia. Apply 600 lbs. per acre. 5 lbs. 50c; 10 lbs. 85c; 25 lbs. \$1.50; 50 lbs. \$2.75; 100 lbs. \$5.00; 200 lbs. \$8.50.

**COW MANURE**—See page 55.

**INSECTILIZER**—A combined tobacco base insecticide, fertilizer, and mulch. Shredded so that the nicotine and plant food are readily available. Promotes healthier growth, better stems, larger blooms, and richer coloring. Also has high insecticidal value. \$3.25 100 lbs.; 5c lb.

**F. & I. FERTILIZER AND INSECTICIDE**—A ground, tobacco-based fertilizer and insecticide containing fine particles for dusting. F. & I. quickly stimulates healthy growth and protects plant life against insect pests. \$3.25 100 lbs.; 5c lb.

**GYPHUM or LAND PLASTER**—Intensifies the color of roses, other flowers as well. Used for top dressing newly plowed land prior to harrowing; also for sweetening the soil on lawns and fields. Apply 1,000 to 1,500 lbs. per acre. 40c for 10 lbs.; 25 lbs. 60c; \$1.00 for 50 lbs.; 100 lbs. \$1.75; \$2.50 for 200 lbs.

**HUMUS (Leaf Mold)**—Fine for lawns, replanting and repotting. 4c lb.; 10 lb. 35c; 50 lb. \$1.50; 100 lb. \$2.50; 500 lb. \$10.00; 1,000 lb. \$18.50, last four sizes delivered. Ton and car load prices on application.

**KAINIT (Potash Salts)**—Fine for asparagus. 6c lb.; 10 lbs. 50c; 25 lbs. \$1.25; 50 lbs. \$2.00; 100 lbs. \$3.50.

**LAWNSPUR**—A good chemical plant food for the lawn. 5 lb. 50c; 25 lb. \$1.50; 100 lb. \$4.75.

**LIME (Hydrated or Powdered)**—Promotes growth and gives the grass a rich color. Apply one ton per acre on fields, or  $\frac{1}{2}$  ton on lawns. 5 lbs. 20c; 10 lbs. 30c; 50 lbs. 75c; 100 lbs. \$1.25; 500 lbs. \$4.50; 1,000 lbs. \$8.00. Ton \$15.00.

**MURIATE OF POTASH**—Apply 100 to 150 lbs. per acre, usually with other fertilizers. Excellent for potatoes, corn, grains, etc. Analysis, equal to 50 per cent actual potash. 10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

**NITRATE OF SODA**—Apply 100 to 150 lbs. per acre, mixing with land plaster or other fertilizers to render application more easy. Use only after plants are above ground. If used in liquid form dilute 2 ozs. to 1 gal. of water and do not apply oftener than twice a week. 10c lb.; 3 lbs. for 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$4.50. Price on larger quantities on application.

**NITRATE OF SODA**—Pellet Form—15c lb.; 2 lbs. 25c; 5 lbs. 60c; 10 lbs. \$1.00; 100 lbs. \$5.00. Prices on larger quantities on application.

**COMMERCIAL FERTILIZER (Baugh & Armour) 2-8-5**—For potatoes and general crop. Ton \$29.00; 165-lb. bag \$3.75; 100 lbs. \$2.75; 50 lbs. \$1.75; 25 lbs. \$1.00.

**PERUVIAN GUANO SUBSTITUTE 5-8-5 (Baugh & Armour)**—All around high grade fertilizer. Ton \$38.00; 165-lb. bag \$4.50; 100 lbs. \$3.25; 50 lbs. \$2.00; 25 lbs. \$1.25; 6c a lb.

**TOBACCO FERTILIZER 4-8-4 (Baugh & Armour)**—Ton \$36.00; 165-lb. bag \$4.00.

**COMMERCIAL FERTILIZER 1-9-4 (Baugh & Armour)**—All around goods. Ton \$25.00; 165-lb. bag \$3.25.

**UPLAND WHEAT FERTILIZER 4-16-4 (Baugh & Armour)**—Ton \$40.00; 165-lb. bag \$4.50.

**LOW LAND WHEAT FERTILIZER 2-16-8 (Armour)**—Ton \$38.00; 165-lb. bag \$4.25.

**SHEEP MANURE**—See page 55.

**PHOSPHATE, HIGH-GRADE ACID TENNESSEE OR SOUTH CAROLINA ROCK**—18 per cent. Apply 1,000 lbs. per acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. Price, \$17.50 per ton; 167-lb. bag, \$2.50.

**SULPHATE OF AMMONIA**—10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

**SULPHATE OF POTASH**—Fine for roses. 10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

**TANKAGE**—8c lb.; 5 lbs. 35c; 10 lbs. 60c; 25 lbs. \$1.25; 50 lbs. \$2.00; 100 lbs. \$3.75.

**TOBACCO STEMS**—For fumigating, mulching and fertilizing; an excellent top dressing for lawns in winter. 1 lb. 5c; 50 lbs. \$1.50; 100 lbs. \$2.50.

**WOOD ASHES (Canadian Unleached Hardwood Ashes)**—High in potash. Excellent for roses, grass, etc. Apply in early spring or late fall. 1,000 lbs. to acre. 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 100 lbs. \$2.50.

For Fertilizer to be sent by parcel post, add 7c for 1 lb. and 1c for every additional lb. Like 1 lb. 7c; 10 lbs. 16c.

## STIM-U-PLANT

An All-the-Year Fertilizer for Garden and House Plants.  
Prices: Small size, 25c; 100 tablets, 75c; 1,000, \$3.50. Postpaid.



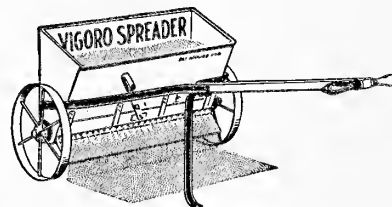
### THE DESIRABLE LAWN AND GARDEN TOP DRESSING AND SOIL CONDITIONER

The need for a high-grade, sterile, odorless, ready-to-use, dehydrated cow manure combined with a sterile, high test source of organic media contributing active humus to soils, brought about the development of DRICONURE—ready-to-use turf and garden dressing, which is made of materials of the best quality. Descriptive circular on request.

Prices: 5 lbs. 40c; 10 lbs. 75c; 25 lbs. \$1.50; 50 lbs. \$2.50; 100 lbs. \$4.50;  $\frac{1}{2}$  ton \$39.00; 1 ton \$75.00.

## Vigoro Plant Food and Lawn Seed Spreader

SAVES  
TIME



SAVES  
LABOR

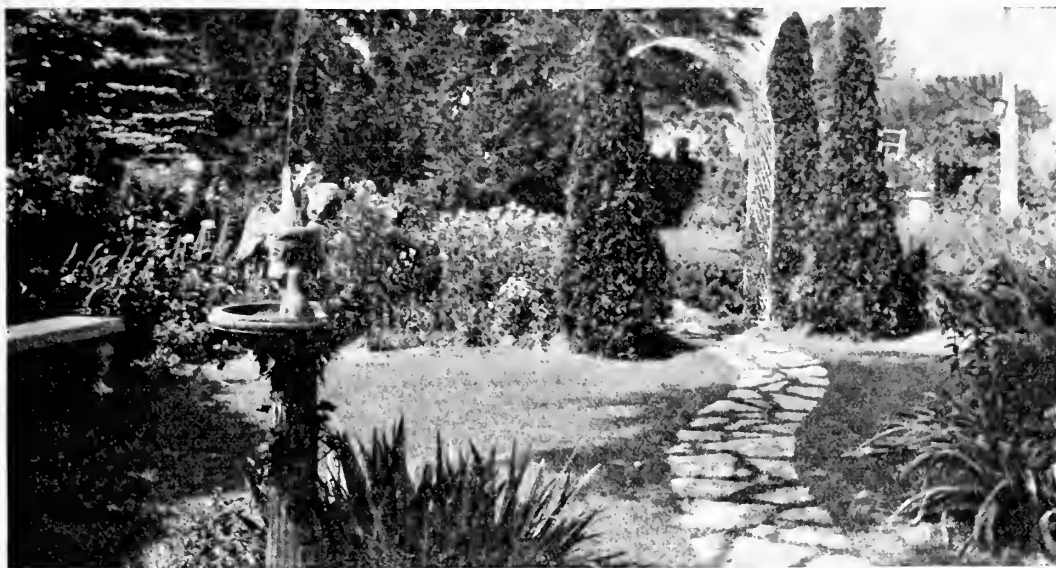
A Very Efficient Fertilizer and Seed Distributor—Made in 3 Sizes  
Vigoro Spreader Junior—14-inch hopper.....\$ 8.25  
Vigoro Spreader Standard—24-inch hopper..... 12.50  
Vigoro Spreader Special—36-inch hopper..... 20.75

### HOFMANN JR. PLANT FOOD & GRASS SEED DISTRIBUTOR

Designed especially for hard continuous service on lawns, golf courses, country club grounds, parks, etc. Capacity—Approximately 60 lbs. lime or corresponding capacity in pulverized fertilizer seed, etc. Special circular on request. Price, \$22.50; with Grass Seed Attachment, \$25.00. Express or freight only.

### THE HAWKS FERTILIZER SPREADER

Distributes any kind of commercial fertilizers, lime, or gypsum. Easily filled through the large end-opening. No lumps can come through the sieve-like openings. Adjustable instantly to any desired spread. Capacity about 50 lbs. Price, \$12.50.



## For Gardening Success

THE best seeds and plants will not produce good results if grown in an impoverished soil.

Be sure your plants get all the nourishment they need for full growth and greatest beauty. Feed them with Vigoro, the complete, scientifically balanced plant food.

Vigoro produces thick, velvety-green lawns with deep, extensive roots; helps choke out weeds; and increases humus in the soil. It makes flowers larger and more beautiful; produces early, delicious vegetables, luxuriant shrubbery, and healthy, full-foliaged trees.



1 Read simple directions



2 Apply Vigoro evenly



3 Wet down thoroughly

Vigoro is clean, odorless, and easy to use. It's economical, too! Costs only 10¢ to 20¢ for every 100 square feet.

Order enough Vigoro for everything you grow.

Complete directions in every bag.

### Prices

100-lb. bag	\$5.00
50-lb. bag	\$3.00, postpaid 3.56
25-lb. bag	1.75, postpaid 2.06
5-lb. pkg.	.50, postpaid .61
12-oz. pkg.	.10, postpaid .17
100-lb. bag, f. o. b. Baltimore, Md.	

# VIGORO

*Complete plant food*

A product of Swift & Company



For Lawns, Gardens, Flowers, Shrubbbery, and Trees



## *A Finer Lawn in Ten Days*

Demonstrations by gardening enthusiasts and leading growers of the country have led thousands of home-owners throughout the country to prove for themselves the power of Loma.

Everywhere the results are the same. In less than two weeks' time, the grass treated with Loma is noticeably taller, thicker, greener.

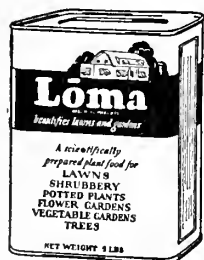
Try Loma on your own lawn. Try it, too, on your vegetables and your flowers. This rich, concentrated plant food nourishes the roots, produces bigger and juicier vegetables, larger and brighter blooming flowers.

Loma is odorless, clean to handle, entirely free from weed seeds, and contains no filler.

### PRICES

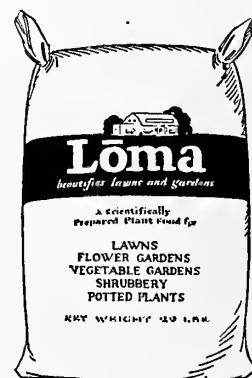
1-lb. can.....	\$ .25—Postpaid \$ .32
5-lb. can.....	.50— " .61
10-lb. bag.....	.85— " 1.00
25-lb. bag.....	1.75— " 2.06
50-lb. bag.....	3.25— " 3.81
100-lb. bag.....	\$6.00 f. o. b. Baltimore, Md.

Specific directions on each package



# Lōma

TRADE-MARK REG. U.S. PAT. OFF.







# Fertilize your lawn and flowers with **WIZARD**

There are no safer or more dependable fertilizers than Wizard Sheep and Cow Manures. These pure manures are highly concentrated and sterilized so as to kill all weed seeds. These natural fertilizers are safe and will not burn plants. Everybody can get wonderful results with Wizard Brand Manures because they supply the humus and natural plant food so necessary to make all soils rich and fertile. Try Wizard this year on your lawn and garden and see how quickly and economically these safe fertilizers put new life and beauty into your plants.

## Absolutely Weedless -- Will Not Burn Plants!

**LAWNS.** Wizard produces a thick velvety lawn of lasting beauty. On new lawns broadcast 10 lbs. to 100 sq. ft. and rake into the surface soil. To rejuvenate old lawns rake them well and then broadcast 6 to 10 lbs. to 100 sq. ft. Wizard acts quickly but will not burn your lawn. To be safe use Wizard—it's positively weedless.

**FLOWERS AND SHRUBBERY.** Luxuriant green foliage and a wealth of vivid colored flowers quickly follow the use of Wizard Sheep and Cow Manures. Use Wizard Sheep Manure on shrubbery, vines, annuals and quick growing perennials. Cow Manure is better for roses and the more sensitive and delicate perennials. Cow Manure is cool and slow acting. Top dress established plants at the rate of 10 lbs. to 100 sq. ft. and rake into the surface soil. For shrubs, vines and trees from one to five pounds each, depending on size. When setting out new plants always mix a handful of Wizard with the soil under each plant.

**VEGETABLES AND FRUITS.** Every practical gardener knows that there is nothing better than manure to produce big crops of crisp, tender vegetables. Wizard promotes early maturity and high quality. It increases yield, color and flavor of fruits.

**HUNDREDS OF FLORISTS** know that Wizard Sheep and Cow Manures are unexcelled for feeding, mulching and liquid manuring. Wizard Manures are all direct heat dried and sterilized. They do not contain garbage tankage, wool scourings, sand or other inferior fillers. Insist on Wizard Brand if you want results at least cost.

### PRICES OF WIZARD BRAND SHEEP MANURE

2 lbs.	.....	\$ .15	— Postpaid \$ .23
5 lbs.	.....	.30	— " .41
10 lbs.	.....	.50	— " .66
25 lbs.	.....	1.00	— " 1.31
50 lbs.	.....	1.75	— " 2.31
100 lbs.	.....	3.00	
500 lbs.	.....	13.50	
1,000 lbs.	.....	25.00	
Ton	.....	47.50	

City,  
Suburban  
and Depot  
Delivery.

### PRICES OF WIZARD BRAND COW or CATTLE MANURE

2 lbs.	.....	\$ .15	— Postpaid \$ .23
5 lbs.	.....	.30	— " .41
10 lbs.	.....	.50	— " .66
25 lbs.	.....	1.00	— " 1.31
50 lbs.	.....	2.00	— " 2.56
100 lbs.	.....	3.50	
500 lbs.	.....	16.25	
1,000 lbs.	.....	30.00	
Ton	.....	55.00	

City,  
Suburban  
and Depot  
Delivery.



Wizard makes big crops.



*Velvet Lawns! Beautiful Flowers!  
Luscious Vegetables!*



Feed Your Plants  
THIS SIMPLE, EASY  
PLEASANT WAY

These new air-nitrogen fertilizers are three to four times as rich in plant-food as the ordinary fertilizer. They are as clean as sugar to handle, and are absolutely free from weed seeds and all obnoxious odors.

## NITROPHOSKA

15-30-15

This concentrated complete fertilizer contains all of the three essential plant-foods—nitrogen, phosphoric acid and potash. It has 15% nitrogen, 30% phosphoric acid and 15% potash. Nitrophoska produces strong, vigorous growth of rich green color. Five to ten pounds is enough to fertilize 1,000 square feet of lawn or garden.

## FLORANID

[UREA]

Floranid is a very rich nitrogen fertilizer (46% nitrogen), used during the growing season to obtain more rapid growth, richer color of foliage and greater brilliancy of bloom. The nitrogen is in the same chemical form as liquid manure. One pound of Floranid is enough for one application to 1,000 square feet of lawn or garden.

### A Trial Will Convince You



Not until you try these wonderful new fertilizers can you possibly realize the marvelous results that they will give you. Five to ten pounds of Nitrophoska is enough for an early spring application to 1,000 square feet of lawn or garden. One pound of Floranid is enough for one summer application for 1,000 square feet of lawn or garden. Be sure to try these fertilizers this season—mail in your order now.

The amount of actual plant-food in a fertilizer—not its bulk—determines its value. Nitrophoska is the most economical fertilizer because it contains the most plant-food—"a little goes a long way." Amount of Nitrophoska required, compared to the usual fertilizer:

Other Fertilizers	Nitrophoska	PRICES (Nitrophoska or Floranid)
3 to 5 lbs.....	1 lb.	1 lb.....\$ .50—postpaid \$ .57
15 to 25 lbs.....	5 lbs.	5 lbs..... 2.00—postpaid 2.12
30 to 50 lbs.....	10 lbs.	10 lbs..... 3.00—postpaid 3.17
75 to 125 lbs.....	25 lbs.	25 lbs..... 5.00—postpaid 5.32

Nitrophoska is also packed in 100 lb. moisture-resistant bags. Price \$8.00.

You Will Be Assured

## BEAUTIFUL GARDENS AND LOVELY HOUSE PLANTS

By Using the New, Improved, Quick Dissolving  
PLANT FOOD IN TABLET FORM

## FULTON'S Plantabbs

ODORLESS PLANT FOOD TABLETS

These tablets are very concentrated yet properly balanced with the guaranteed high analysis of Nitrogen 11%, Phosphoric Acid 15%, Potash 20%. Convenient, clean, being specially adapted to inside use where smelly fertilizer cannot be used. Makes ferns, begonias, window boxes grow and thrive in spite of heated rooms.

### FOR GARDEN USE

PLANTABBS are highly recommended for roses, delphinium, asters, dahlias, chrysanthemums, in fact all garden flowers. Plant one tablet with each bulb and they will produce marvelous blooms. PLANTABBS are perfectly safe. Directions in every package. 30 Tablets 25c; 75 Tablets 50c; 200 Tablets \$1.00; 1000 Tablets \$3.50. Postpaid.



## The Vex Automatic Fertilizer

Makes it Possible for You to Fertilize Your Lawn as You Sprinkle  
What It Is—How It Works

The Vex Automatic Fertilizer is simply an enameled brass cylinder 12 inches long and 3 inches in diameter. It has two hose connections. One for the water to enter from the faucet. The other for the water to pass out through your own lawn hose—charged with this remarkable grass food.

Into this cylinder is slipped a cartridge of Lawn-Vex—sufficient for 2,400 square feet or a plot 40x60.

This cartridge dissolves to the proper solution as the water passes through the cylinder. Thus an even flow of life-giving food is spread over your lawn as you sprinkle it.

Prices: Containers and Cartridges complete, \$6.00, postpaid. Extra Cartridges, \$2.00 each, postpaid.



## IMPORTED GRANULATED PEAT MOSS

TORF MULL

### FOR YOUR GARDEN

GRANULATED PEAT MOSS is a reservoir for moisture. Laboratory tests show that it absorbs from eight to ten times its own weight. When mixed with the soil, it encourages the growth of the important beneficial nitrate-forming bacteria. Nitrate is the most expensive fertilizing element and one of the most necessary to vigorous growing plants. It is the element which plants absorb in greatest quantity, therefore, it is important that an ample supply be maintained in the soil to assure good crops of flowers, fruits or vegetables. ½ pk. 35c, postpaid 42c; 1 pk. 60c, postpaid 69c; 1 bu. 90c, postpaid \$1.02; small bale of 2 bus. \$1.25, postpaid \$1.43. Bale of 19-20 bushels, \$3.50. SPHAGNUM MOSS—For packing plants and growing orchids. ½ pk. 35c, postpaid 42c; 1 pk. 50c, postpaid 59c; 1 bu. \$1.25, postpaid \$1.37; bale, about 3 bus., \$3.25.

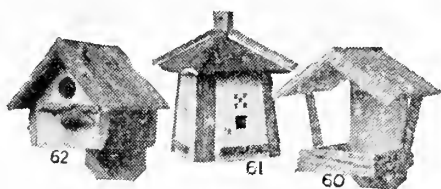
Larger quantities on quotation.

## RUSTIC CEDAR BIRD HOUSES

**\$1.75 Each**

We can supply  
18 Different Styles

**Postpaid \$1.85**



**\$5.00 per Set of 3**

We can supply  
6 Different Sets

**Postpaid \$5.16**

There are several things to be said in favor of Rustic Bird Houses, particularly of the sweet smelling Jersey cedar, which is a disinfectant in itself. If you are sufficiently interested, nail up a Rustic house alongside a brightly painted one, and see which they will select. It is the "back to nature movement" among the birds. Where did they nest before civilized man inhabited this country? In hollow trees, woodpeckers and their kind boring their own in dead trees. Now such suitable places are fast disappearing under the pruning and slashing axe of man.

These bird houses are very artistic in design and unique in rustic construction. They are the kind birds will use and will enhance the surroundings of any home. When ordering specify the kind of birds the houses are intended for.

As illustrated:

No. 62—Blue Bird.

No. 61—Wren.

No. 60—Robin Shelter.

## REVIVO

Japanese Beetle Grub Controlled  
Crab Grass Prevented — The Lawn Fertilized

### Revivo

A unique, scientific preparation that controls the Japanese Beetle by destroying the Beetle Grub in the soil.

It is a known fact that the Japanese Beetle is feeding on the roots of the grass in the lawn in the grub stage the greater part of the year. This is the most vulnerable point in the life cycle of the beetle.

Therefore, it is the ideal time to dust a poison over the lawn or garden which is sure death to all grubs in the soil.

Revivo will control all grubs, and in addition will remain active for three or four years, and prevent the Japanese Beetle Grub from coming out of the ground if applied in the spring before the latter part of June or any time in the fall.

This is the most satisfactory and sure way to combat the ravages of this destructive pest—no other method has proven so effective.

### Crab Grass

Is prevented by the application of Revivo; chick weed, plantain, and dandelion is stunted in growth, and have a low rate of germination wherever Revivo is used. In this respect it is a valuable addition to the Horticultural remedies, and if it had no other functions, the fact that Revivo prevents fall and crab grass would be ample reason for its existence, and most remarkable of all Revivo fertilizes and promotes remarkable growth, and finer lawns are assured.

The application is simple—Rake the dead grass off the lawn, and sprinkle Revivo all over the ground at the following rate:

10 lbs. will cover a space of 250 square ft.  
100 lbs. will treat 2,500 square feet. For best results this treatment should be repeated several times during the natural growing season.

Follow this by sowing Lawn Seed at the rate of one pound to every 200 square feet, and follow this by a good rolling.

Price: 10 lbs. \$1.50; 25 lbs. \$3.50; 100 lbs. \$10.00; 500 lbs. \$45.00

NOT MAILABLE.

## SEMESAN

Controls "BROWN PATCH", "DAMPING-OFF" and SEED-BORNE DISEASES of

Grains, Field and Forage Crops, Vegetables,  
Corn, Potatoes and Flowers



**Superior Grain, Better Flowers and Finer Vegetables**

Grow from Soil and Seeds Disinfected Against Diseases with Semesan, Semesan Jr., Semesan Bel and Ceresan.

Circulars treating fully on treatments with the different disinfectants on request.

#### PRICES FOR SEMESAN

2 OZS. ....	\$ .50	5 lbs. ....	13.00
1 lb. ....	2.75	25 lbs. ....	56.25

NOT MAILABLE.

#### PRICES FOR JR. FOR CORN, AND BEL FOR POTATOES

4 OZS. ....	.50	5 lbs. ....	8.00
1 lb. ....	\$ 1.75	25 lbs. ....	31.25

#### PRICES FOR CERESAN FOR GRAIN SEEDS

8 OZS. ....	\$ .50	5 lbs. ....	3.00
1 lb. ....	.75	25 lbs. ....	12.50

100 and 300-lb. containers of each product are available. Prices furnished on request.

NOT MAILABLE.



# GARDEN BOOKS

Practical, concise and authentic

Written especially for amateurs. Profusely illustrated, well-printed on good paper and handsomely bound in durable covers.

## Garden Guide

Each subject written by an authority—thus giving the advantage of numerous experts rather than of one author. A veritable encyclopedia of gardening for the average-sized home. Covers flowers, fruits, vegetables, lawns, trees, shrubs, roses and other favorites, perennials, annuals, bulbs, ferns, water plants, rock gardens, house plants, fertilizers, pruning, propagation, transplanting, diseases, insects, etc. 388 pages, 275 illustrations. Paper, \$1.00; postpaid, \$1.10. Cloth, \$1.50; postpaid, \$1.65.

## The Book of Annuals

By Alfred C. Hottes.

Over 100 species described with full directions for their care, culture and use. Lists of different Annuals for different purposes and a condensed tabular cultural list. 182 pages, 155 illustrations. Cloth, \$1.50; postpaid, \$1.65.

## City and Suburban Gardening

By Chesla C. Sherlock

Written especially for the owner of a city lot or a suburban home who is desirous of making his home a place of beauty. Does not treat fruits and vegetables but gives complete information on flowers, plants, trees and shrubs with planting plans. 196 pages, 82 illustrations. Cloth, \$2.00; Postpaid, \$2.15.

## A Little Book of Climbing Plants

By Alfred C. Hottes.

A most complete book covering Climbing Plants of whatever nature and including ground covers and creepers. Also has a chapter on trellises, pergolas, fences and woodwork. 250 pages, 106 illustrations. Cloth, \$1.75; Postpaid \$1.90.

## Modern Dahlia Culture

By W. H. Waite

The originator of "Jersey's Beauty" and other highly popular Dahlias. Gives soil, fertilizers, propagation, culture, pruning, insect pests and diseases, winter storage and classifications. 132 pages, 28 illustrations and 4 color plates. Cloth, \$1.50; postpaid, \$1.65.

## Adventures in Dish Gardening

By Patten Beard

The Japanese Art of Hachi-niwa or dish-picture interpreted for our western use. Shows how to make lovely bits of miniature landscapes with growing plants. Full instructions on the making of figures, bridges and other artificial materials used. 220 pages, 65 full-page halftones and 4 color plates. Leatherette, \$2.50; Postpaid, \$2.65.

## The Principles of Flower Arrangement

By Prof. E. A. White

For the hostess, the social leader and all women who delight in displaying flowers to their fullest beauty. Gives color harmonies with flowers, vases and surroundings and arrangement in the home. 225 pages, 65 halftones and 6 color plates. Leatherette, \$3.00; Postpaid, \$3.15.

## Fertilizers for Greenhouse and Garden Crops

By Alex Laurie and J. B. Edmond

Deals with the fundamental factors of plant growth and their relation to the application of various materials to stimulate the growth and development of various cut flowers and pot plants. 156 pages with 22 illustrations. Cloth, \$2.00; Postpaid, \$2.15.

## 1,001 Garden Questions Answered

By Alfred C. Hottes.

Written in the form of questions and answers this book is a wonderfully quick method of answering all questions pertaining to a moderate-sized place. Information on all phases of gardening—flowers, fruits, vegetables, lawns, trees, bulbs, propagation, soils, pruning, storage, etc. 320 pages, 81 illustrations. Paper, \$1.50; postpaid, \$1.65. Cloth, \$2.00; Postpaid, \$2.15.

## Milady's House Plants

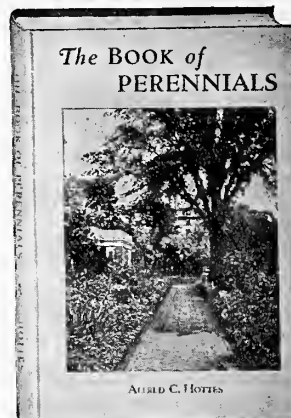
By F. E. Palmer.

Tells how to care for and raise all house plants that succeed in the home. Full cultural information with treatment, propagation, insects and diseases. 176 pages, 96 illustrations. Paper, \$1.00; Postpaid, \$1.10. Cloth, \$1.25; Postpaid, \$1.35.

## Practical Plant Propagation

By Alfred C. Hottes.

Information on how to graft fruit trees, make cuttings and layers and sow seeds which are often difficult to germinate. Propagation as practiced by nurserymen



and gardeners. 224 pages, 106 illustrations. Cloth, \$2.00; Postpaid, \$2.15.

## The Book of Perennials

By Alfred C. Hottes.

Tells how to successfully grow and enjoy over 125 species of our most popular and durable of border plants. Lists of different perennials for different purposes and a condensed tabular list of over 500 species. Gives general principles of growing, using, selecting, propagating and insect and disease troubles and remedies. 200 pages, 93 illustrations. Cloth, \$1.50; Postpaid, \$1.65.

## The Book of Shrubs

By Alfred C. Hottes.

A complete, non-technical description of the common shrubs, showing how one differs from the other. Discusses under each species its characters, uses, soil, pruning and propagation. A table of varieties gives the height in feet, exposure to plant, soil, color of flowers, season of bloom, color of fruit and notes on each species. 371 pages, 180 illustrations. Cloth, \$3.00; Postpaid, \$3.15.

## Practical Vegetable Culture

By A. E. Wilkinson.

The growing of vegetables for home consumption and on the farm for profit. 308 pages, 177 illustrations. Cloth, \$2.00; Postpaid, \$2.15.

## Water Gardens and Goldfish

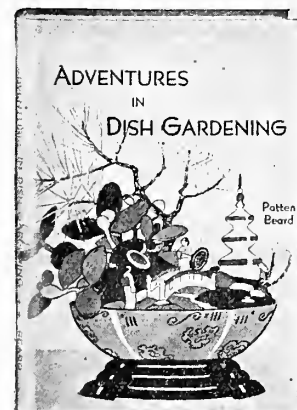
By Robert V. Sawyer and E. H. Perkins.

Two closely related subjects under one cover. Small to medium-sized pools and care of goldfish. 112 pages, 59 illustrations. Cloth, \$1.50; Postpaid, \$1.65.

## Woman's Flower Garden

By Jane Leslie Kift.

Especially written for women who prefer only a small or medium-sized outdoor garden and a few of the best house plants in the home. Gives the care of flowers and plants in the home and their cultivation in the garden. 160 pages, 15 illustrations. Cloth, \$1.25; Postpaid, \$1.35.



## Rose Garden Primer

By Eber Holmes.

Gives all necessary information for the successful growing of roses at home, origin, history, soils, cultivation, insects and diseases, propagation, classification, protection, under glass, different species for different climates, etc. 224 pages, 33 sketches. Cloth, \$1.75; Postpaid, \$1.90.

## Practical Landscape Gardening

By Robert A. Cridland.

The outstanding features of this book are its numerous planting plans and keys thereto, with the many halftone illustrations and sketches. 280 pages, 260 illustrations, planting plans and sketches. \$2.50; Postpaid, \$2.65.

## Rock Garden Primer

By Archie Thornton.

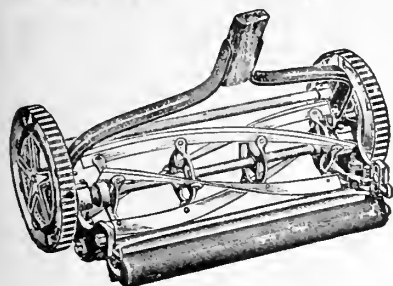
Covers conditions for the temperate region of America and written with particular regard for the benefit of those who wish information connected with the making of a rock garden. 152 pages, 70 illustrations and four color plates. Leatherette, \$2.00; Postpaid, \$2.15.





Our Mowers Must  
Give Results

## M.-S. RELIABLE LAWN MOWERS, ETC.



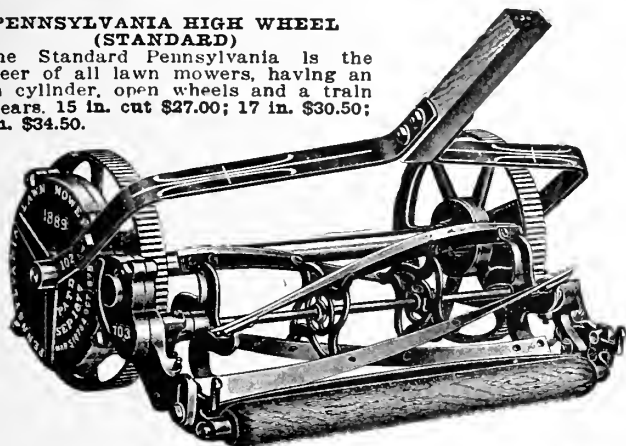
**M.-S. CRUSADER—  
(BALL BEARING)**

A light weight, four blade mower similar in design and construction to the Interstate except that the drive wheels are 9 ins. diameter. A suitable mower for ladies on account of its easy running capacity. 16 inch cut.

Special price, \$10.00.

### PENNSYLVANIA HIGH WHEEL (STANDARD)

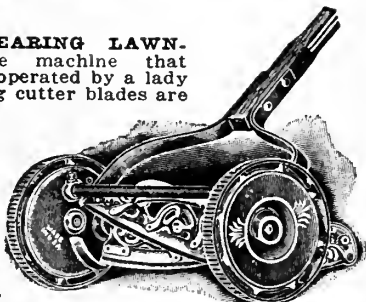
The Standard Pennsylvania is the pioneer of all lawn mowers, having an open cylinder, open wheels and a train of gears. 15 in. cut \$27.00; 17 in. \$30.50; 19 in. \$34.50.



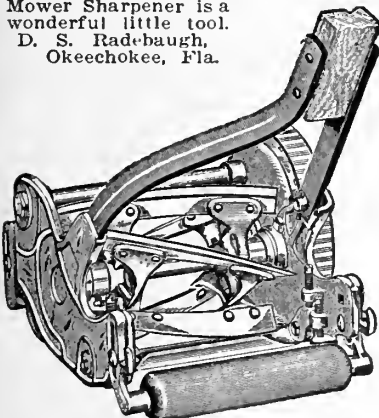
**"COLONIAL" BALL BEARING LAWN MOWER**—A grand little machine that runs so easy that it can be operated by a lady or child. The four revolving cutter blades are made of the finest material.

#### PRICES:

12 in. \$9.50; 14 in. \$10.50;  
16 in. \$11.50.



Gentlemen:  
Your M.-S. Lawn  
Mower Sharpener is a  
wonderful little tool.  
D. S. Radebaugh,  
Okeechokee, Fla.



**COLDWELL'S BALL BEARING TRIMMER** is a very high class tool for finishing along walks, walls or flower beds, where the regular lawn mower cannot be used successfully. It accomplishes this task quickly and neatly and with very little effort. Does away with the back-breaking job of trimming with shears. Especially desirable for cemetery trimming.

#### Specifications

**Blades**—Four crucible steel.  
**Gears**—Fine cut gears in drive wheels. Pinion and pawl drive. Accurate and noiseless.

**Bearings**—Balls, finest drop-forged steel, case hardened. Cones made from steel shafting, turned and ground for true finish.

**Wheels**—8 inch solid wheel on right side only. Small caster wheel in front on left side.

**Width of Cut**—8 inches only. **Price**, \$10.50.

### COLDWELL'S IMPROVED HORSE LAWN MOWER

All steel, complete with shaft, seat and side draft,  
\$175.00 F. O. B. Baltimore, Md.

**COLDWELL'S IMPERIAL ROLLER BEARING**—Designed to meet the demands of park and cemetery superintendents. Durable, light running, easy to push and requiring minimum of attention to adjustments. Roller bearings enclosed in dust proof housings. When packed with light grease will need no further oiling for the season. Best lawn mower on the market for hard service in parks, cemeteries and private grounds.

**Lightest Running—Strongest Built.**

**Wheels**—10 1/4 inch.

**Blades**—Five.

**Bearings**—Standard Hyatt Roller.

**Gears**—Triple-pawl ratchet.

**Material and Finish**—Highest class.

**Prices**: 16 in. \$18.50; 18 in. \$19.50; 20 in. \$20.50.

**"INTERSTATE"**—Is a high grade, high wheel, ball bearing mower at a moderate price. Light and easy to handle. Has large revolving cutter, high frequency and will do a fine job of cutting with little effort.

#### Specifications

**Blades**—Four crucible steel.

**Gears**—Pinion and flat sliding pawl type. Direct drive both sides. Protected from dirt and flying grass.

**Bearings**—Balls, finest drop-forged steel, case-hardened. Cones made from steel shafting, turned and ground for true finish.

**Frame**—Open type, light in weight but strong and durable. **Wheels**—10 inches, six spokes, open style.

**Parts**—Same high grade material and accurate workmanship as used in higher priced machines.

**Bottom Knife**—Flat crucible steel, self-sharpening.

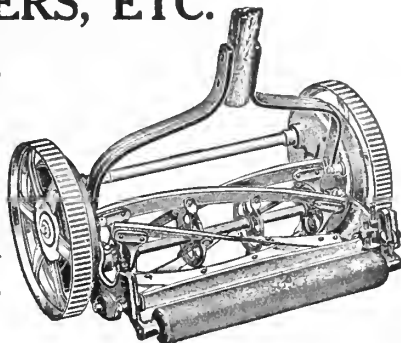
**Height of Cut**—1/2 to 1 1/2 inches.

**Handle**—Hardwood, varnished. Adjustable braces.

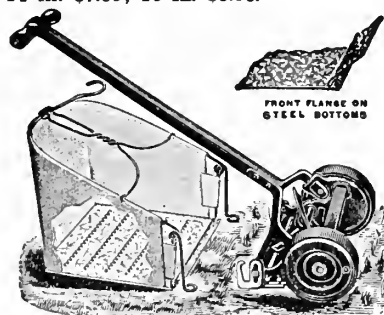
**Finish**—Blue and gold. **Prices**: 14 in. cut \$12.50; 16 in. \$13.50; 18 in. \$14.50.

**SWIFT CUTTER**—A low-priced machine for small grass plots, not ballbearing, fully guaranteed.

**Prices**: 12 in. cut \$6.50; 14 in. \$7.00; 16 in. \$8.50.



**M. & S. Interstate**



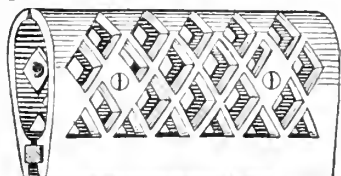
**M.-S. Easy Grass Catcher.**

6G—16 to 22 inch. price \$1.50; postpaid, \$1.60.

**ECONOMY GRASS CATCHER**—A good make, but lighter than the Easy. Construction similar, fits any mower from 12 to 17 inches. No. 17G—Price, \$1.00; postpaid, \$1.10.

#### M.-S. LAWN MOWER SHARPENER

Can be adjusted for any thickness of blade and when properly set will give a uniform bevel, the sharpener following the twist of the knife. It will also sharpen the under blade or dead knife. Price, 75c each, postpaid.

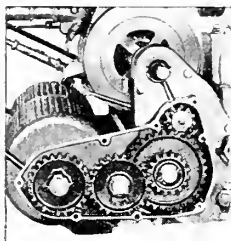


#### M.-S. EASY EMPTYING CANVAS GRASS CATCHER

Designed to fit any size or style of mower and can be attached or detached in a moment. Made of strong canvas and galvanized iron bottom. To fit any mower, No. 5G—12 to 18 inch. \$1.25; postpaid \$1.35; No. 125; postpaid \$1.35; No. 125; postpaid \$1.35.

**OVERHAULING AND SHARPENING OF LAWN MOWERS**—The best time for this is, before the actual time of lawn mowing has come. Let us do this for you. We call for and deliver the work.

# Jacobsen Power Lawn Mowers



Enclosed gear drive,  
separate reel and  
traction clutches,  
operating in oil.

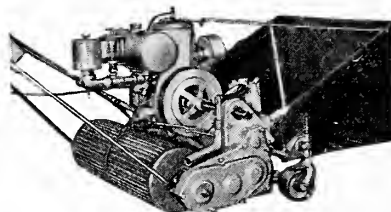
## The "Estate" Roller Mower

Especially Designed for Fine Close Cutting Combined with Gentle Rolling Effect

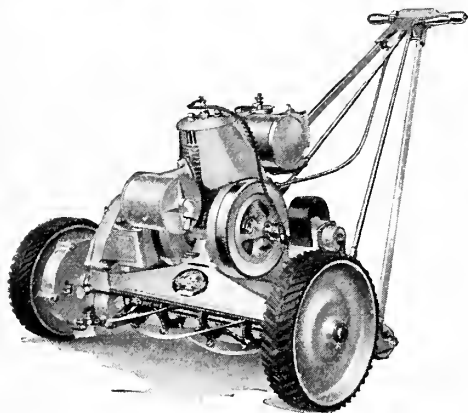
The "Estate" Roller Mower built in two sizes, 24 and 30-inch, has been designed for the estate owner who wishes to have the finest possible lawn at a minimum cost of upkeep. The Estate Mower is also practical for golf club lawns, tennis courts, mowing tees and approaches, and trimming edges of the greens. Its weight has been carefully considered so as to give a sufficient rolling capacity, without danger of packing the soil as is the case with heavier mowers.

The cut is adjustable from a putting green shave to two inches and a high speed cutting reel gives a perfect velvety finish to the lawn. This mower is especially adapted to cutting creeping bent, Bermuda, and St. Augustine grasses. The auto type differential gives perfect ease in trimming close to flower beds, and mowing into corners. This mower also has enclosed gear drive, self-sharpening reel, and separate clutch control for traction and cutting units. Price .....

Letters from hundreds of owners both in America and Europe testified to the popularity of Jacobsen mowers.



Many years of successful performance have given Jacobsen Mowers the reputation of proved dependability.



## The Power "Putting Green" Mower

Made in Two Sizes, 19 and 24 Inch

The Jacobsen Power Putting Green Mower is outstanding in its capacity for cutting, brushing, working in topdressing, and rolling the greens with perfect result, with less labor and less cost. The mower handles easier than a hand mower and not only effects a saving

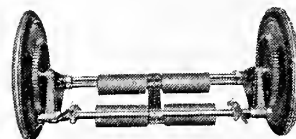
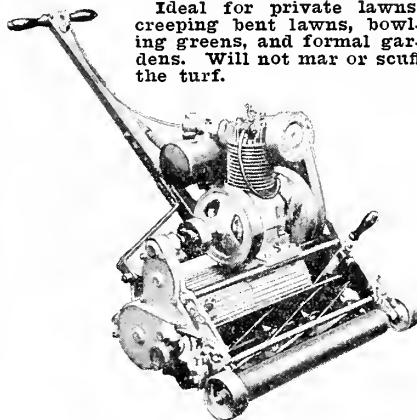
of 50 to 75 per cent in cost of mowing the greens, but will provide a finer cut than any push type mower. Auto type differential, separate clutch control for traction, a high speed cutting unit, self-sharpening reel, Timken roller bearings, enclosed gear drive, powerful motor.

Ideal for private lawns, creeping bent lawns, bowling greens, and formal gardens. Will not mar or scuff the turf.

### Jacobsen Power Transport

The Power Cart is strongly built and has disc wheels with pneumatic rubber tires. The cost of the transport is easily realized in the increased life of the mower and the protection of its delicate cutting adjustment.

Price .....



A power transport cart permits mower travel to greens and between greens with dispatch and perfect safety for the mower.

### A Few Prominent Users of the Jacobsen

The White House,  
Washington, D. C.  
Parliament Building,  
Victoria, B. C.  
Palace of Peace,  
The Hague,  
Amsterdam.  
Hatley Castle,  
Victoria, B. C.  
Stotesbury Estate,  
Philadelphia.  
Ebertspark, Germany.  
Ford Hospital,  
Detroit, Mich.  
Longyear Estate,  
Brooklyn, Mass.

Gentlemen:—

After about two and one-half years use of the Jacobsen Putting Green Mowers we wish to tell you of the very satisfactory results which we have had.

We have three Jacobsen Putting Green Mowers and any one of them will mow the eighteen greens quicker than four men can do the work with hand mowers, and when they are thru the greens have been rolled as well.

We use two mowers daily, holding the third in reserve in case of a possible accident on a large day.

We also have in our equipment a Jacobsen Four Acre Mower which did wonderful work around our Club House last season and was inspected by many who saw it in operation.

We have nothing but praise for the Jacobsen; they are doing our work seven days a week during the season.

Respectfully,  
KAHKWA CLUB,  
F. A. STURTEVANT, Manager.

Gentlemen:—

In reply to your letter of the 21st, Mr. Shoemaker gave me the letter on the 24th and asked me to write you.

In regard to the Jacobsen mower I think it the best part of our equipment, and not only that, but it has saved us \$2.00 per day every day we mow.

As far as cutting the greens it does the work better than we could do with 10 hand mowers. I think every course should have one or two of them, and I am talking to all of the other Professionals here and I think they will be ready for one in the spring.

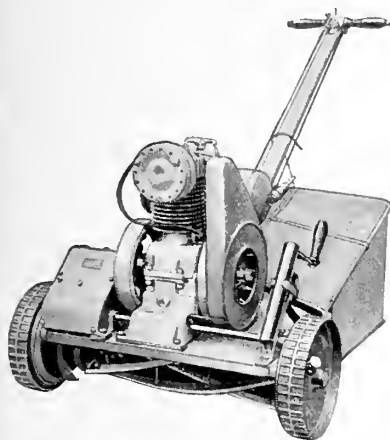
If there is anything I can do for you in this State please do not fail to call on me for I am sold on the mower and am showing it to everyone who has never seen one work.

Yours very truly,  
WILLOW BEACH COUNTRY CLUB.  
Little Rock, Arkansas.

# Jacobsen Power Lawn Mowers

## The "Junior" Power Mower

High Grade Power Mower for Residential Lawns, Rural Cemeteries, and Public Schools



Jacobsen Power Lawn Mowers were responsible for a lawn beauty unknown a few years ago. They save time and labor for city parks, cemeteries, schools, institutions, golf courses, and thousands of estates. The Junior is a highly standardized cutting unit for moderately large lawns. It cuts a 19-inch swath at the rate of three acres per

day on a gallon of gas. It steers easier than a hand mower, negotiates terraces easily, travels on its own power with or without cutting reel. It has an auto type differential, self-sharpening device, and a powerful specially built motor.

Price, .....

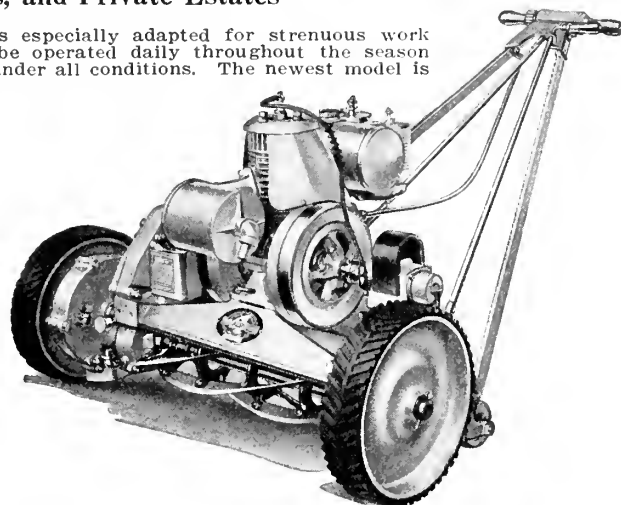
## The "4-Acre" Heavy Duty Mower

A Superior Mower for Parks, Cemeteries, Golf Grounds, Institutions, and Private Estates



The Heavy Duty 4-Acre is especially adapted for strenuous work where power mowers must be operated daily throughout the season with all types of operators. The newest model is equipped with rubber tired wheels. Rubber tires give more quiet, smooth operation and definitely prolong the life of the mower. The traction of the mower is also increased about thirty per cent. In cutting, speed, power, durability, efficiency, and economy of upkeep, the Jacobsen 4-Acre Heavy Duty offers distinct challenge to any other walking type mower regardless of size. The 4-Acre is gear driven, gears enclosed and running in oil. Separate clutches operate from the steering handle, control the cutting unit and traction wheel. An automobile type differential makes turning and steering easy. The knives are sharpened by the mower's own power.

Price, .....



**Enclosed Gear Drive—**  
The sturdy gears are enclosed in dust proof housing and run in oil.

### Sickle Bar Attachment

This exclusive Jacobsen feature cuts Dandelion, Buckhorn, Plantain, and other lawn pests before they go to seed. The sickle bar sets ahead of the cutting reel and operates independent or at the same time.

Price, .....

## The Gang Attachment

The Gang Mower Attachment has been designed to hook on to the front of the regular 4-Acre Heavy Duty Mower with rubber tired wheels. It gives the mower two extra cutting units or three in all with a cutting capacity from 8 to 10 acres per day. It cuts a 58-inch swath. The complete mower is easy to handle and can be turned in a three-foot circle. The Gang Attachment can be easily removed, leaving the mower as it was originally, a 24-inch swath mower. One of the features of the attachment is that it can be raised and moved from place to place.

Price .....



## The Riding Sulky

With the use of the riding sulky it is possible to cut 6 to 7 acres per day, as compared with 4 to 5 acres when the operator walks, besides making the work mere play. It is easily and quickly attached or detached. Very little power is needed to pull the sulky as it is constructed with disc wheels mounted on ball bearings, and pneumatic tires.

Price, .....



Special easy riding sulky designed for the 4-Acre Heavy Duty Mower. Increases the capacity to 7 acres per day.

Price, .....

### SOME LOCAL USERS OF JACOBSEN MOWERS

U. S. Naval Academy Dairy Farm, Gambrills, Md.  
Parkwood Cemetery, Parkville, Md.  
Elkridge Country Club, Charles St. Ave.  
Howard Baetjer, Stevenson, Md.  
Wm. W. Finney, Churchville, Md.  
Geo. R. Morris, Roland Park, Baltimore, Md.  
City of Baltimore (Clifton Park).  
F. X. Hooper Co., Glenarm, Md.  
Asa B. Gardener, Cockeysville, Md.

Gentlemen:—

We have been using Jacobsen Power Mowers for the past six years and we have found them most satisfactory and far superior to any other style of machines we have ever used. We can highly recommend them.

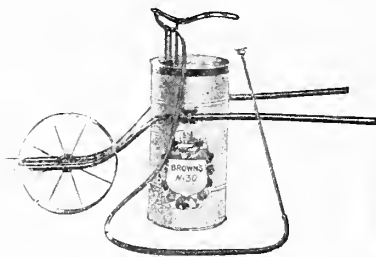
MR. M. L. KITZMEYER, Supt.,  
Parkwood Cemetery,  
Parkville, Md.

## SPRAYERS AND NOZZLES

**No. 30D  
Wheelbarrow  
Sprayer**

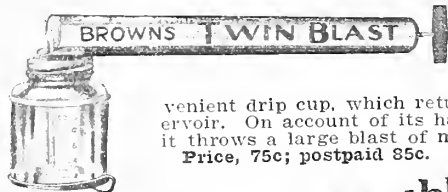
An efficient 12 gal. capacity wheelbarrow sprayer, for general spraying and white-washing. Equipped with 6 foot hose, 2 foot 8 inch iron extension and non-clog nozzle.

Price, \$15.25. Shipping weight 47 lbs.

**Brown's Mighty Wheelbarrow Sprayer**

Similar in construction to the above, but much heavier, has 15 gal. capacity and a 250-lb. high pressure air tank with pressure gauge, paddle agitator. 8 foot hose, 2 foot 8 inch iron extension and non-clog nozzle. An excellent sprayer for spraying orchards, field crops, garden truck vineyards, lawns, and all general spraying.

Price, \$36.00. Shipping weight 112 lbs.

**Brown's Twin Blast**

This glass reservoir, single-acting, twin jet atomizer is efficient and powerful. It has a convenient drip cup, which returns all drip to the reservoir. On account of its having two syphon tubes it throws a large blast of misty spray.

Price, 75c; postpaid 85c.

**Brown's  
Spray  
Pump  
No. 5**

All brass. A high pressure yet light and durable sprayer, made entirely of brass. It is double acting, produces a continuous spray and works from bucket, barrel, etc.



*It's Double Acting*  
*The Same Spray With Half The Labor*

**Brown's Auto-  
Spray No. 9**

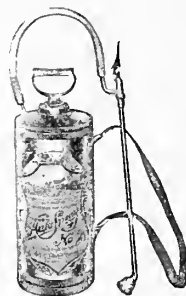
Sturdy compressed air sprayer. The metal in the tank is lock-seamed, well riveted, and soldered throughout. May be obtained with brass or galvanized tank. Brass tank is strongly recommended as it will not rust and will withstand strong solutions. Capacity 4 gals.; weight packed for shipment, 10 lbs. USES—For spraying field crops, shrubs, vines, poultry houses, for removing wall paper, disinfecting, white-washing, and for general purposes. 2-foot extension with each machine, no extra price. New solid seamless brass pump and brass ball check valve.



Auto-Spray No. 9-B, brass tank with Auto-Pop.....\$10.50  
Auto-Spray No. 9-D, galvanized tank, with Auto-Pop.....\$ 6.95  
Parcel post weight, 12 lbs.

**No. 8 Auto Spray**

Most useful sprayer for general work. Capacity 8 gallons. Parcel post weight, 21 lbs. Price, \$5.00.

**Brown's Auto-Spray No. 50**

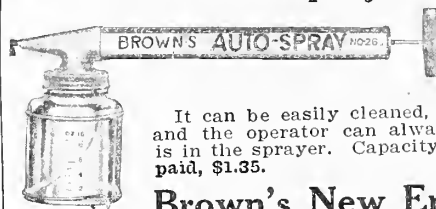
This sturdy little machine is entirely suitable for spraying on a small scale. It is particularly recommended for use where weight is a factor as when women folk or youngsters help out with the spraying. Built exactly the same as our 4-gallon sprayers, except tank is 2½-gallon capacity; 18-inch extension with each sprayer.

No. 50-B—Brass Tank, \$9.00; postpaid \$9.10.

No. 50-D—Galv. Tank, \$6.00; postpaid \$6.10.

**Auto Spray No. 26C****It Sprays Continuously**

This Atomizer will spray insecticide in a continuous fog of such great volume that it will fill an ordinary room full of vapor in one minute. Unequaled for small garden and house plant sprays. Handles all insecticides, fly and mosquito exterminators and floor oils. Every household should have one of these atomizers. All brass, 1 qt., with legs. Price, \$1.50; postpaid \$1.60.

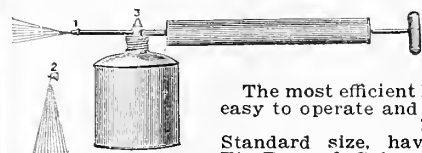
**Brown's Auto-Spray with Glass Tank**

No. 26-AG

It can be easily cleaned, will not corrode or rust, and the operator can always tell how much liquid is in the sprayer. Capacity 1 qt. Price, \$1.25; postpaid, \$1.35.

**Brown's New Era Sprayer**

A practical brass sprayer of 3 quarts capacity. The best sprayer for applying cattle sprays and is so made that the entire sprayer can be taken apart for cleaning with only simple tools. Price, \$3.25; postpaid, \$3.35.

**Robertson  
Sprayer**

The most efficient hand sprayer ever offered; easy to operate and gives a continuous spray.

Standard size, having one-quart container. Tin Pump & Galvanized Iron Container, \$1.25  
Brass Pump and Copper Container..... 2.25

All sprayers have brass tubes and fittings. If to go by parcel post, add 10c to each.

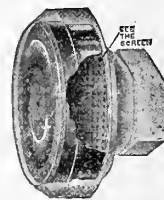
**Spray Pump Accessories**

**NON-CLOG JR. BRASS NOZZLE**—Either straight or 45 degree angle. 75c each.  
No. E1—Auto Pop Nozzle, complete.....\$1.50  
No. 136—Bordeaux Nozzle..... 1.00  
No. 149—Leakless shut-off..... 1.00  
No. K1—2 ft. Brass Extension..... .50  
No. L1—Brass Elbow..... .35

All Nozzles Postpaid.  
No. 42—8 ft. Bamboo. Price with stop cock (not mailable)..... 3.50  
No. 44—10 ft. Bamboo. Price with stop cock (not mailable)..... 3.90

No. 46—12 ft. Bamboo. Price with stop cock (not mailable) \$4.30  
Spray Hose, ½ inch, best made, all rubber, 18c per ft. Postpaid.  
½ inch clamps for same, 5c each; 50c dozen. Postpaid.  
½ inch Hose Couplings, 25c pair. Postpaid.  
½ inch Male fittings, No. 137, 25c. Postpaid.  
½ inch Female fittings, No. 137, 25c. Postpaid.

**BROWN'S BRASS STRAINER**—For straining all spray solutions. Price, \$1.30, postpaid \$1.37.



Non-Clog  
Jr. Nozzle.



## Platz Vermors Brass Sprayer

A PRODUCT OF QUALITY

COMPACT — DURABLE — EFFICIENT

Having no plunger pump, it has no plunger troubles. Its diaphragm-pump will supply a sufficient pressure with but little effort. Its working parts are few, making it easy to operate and economical in upkeep. Capacity approximately four gailons. Net weight 16 lbs.

Price, \$20.00. Shipping weight 28 lbs. Fig. 2.

## Approved Dusters For Mexican Bean Beetle Control

### Platz Green Double Action Duster

The Double Action Duster is identical with the Single Action in construction with the exception of the double bellows, which insures a more steady flow of dust with the same ease of operation, and is better adapted for dusting a denser growth of foliage. Net weight 17 lbs. Shipping weight 44 lbs. Capacity, 20 to 30 lbs.

Price, \$22.00. Fig. 1.



Fig. 1.

### Platz Famous Hand Duster

Its agitator will crush and sift sulphur as well as the standard dusting materials. Regulator is adjustable for a light or heavy application. Bellows of high quality leather. Extension pipes and spreader of 24 inches. Compact and efficient. Capacity, one pound. Price, \$5.00. Fig. 6.

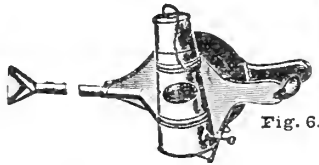


Fig. 6.



### Crystal Duster

A new type hand duster with glass jar container. This duster is especially good for use in dusting garden, truck, field crops,

flowers, poultry houses, and is especially recommended for use with Cyanogas. The discharge is continuous. Price \$1.25, postpaid \$1.34.

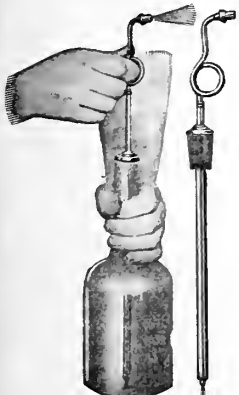
### Feeney Duster, Model BX

These dusters are recognized as standard dusting outfits for applying all kinds of powdered insecticides in fields, vineyards, and gardens, etc. Long spout, 28 inches long. Price, \$1.25, postpaid.

### Feeney Duster, Model D-2

50 inches long—Hopper holds 2 qts.  
Extra nozzle for general use.

This Duster is efficient, durable and easy to operate and reload. It is equipped with extension tubes and special nozzles for dusting upward from underneath plants and vines. It is the approved type for Mexican Bean Beetle. Price, postpaid, \$4.10. Fig. 5.



### Bottle Sprayer No. 65

Adapted to Home Purposes.

Made of brass valves, nozzle throws a fine mist spray, is provided with cork and fits any ordinary quart bottle. Nickel plated, of fine appearance. Excellent for spraying disinfectants in homes, schools and hospitals and for plants or spraying flowers. Height 12 1/2 inches.

Price \$1.25, postpaid \$1.35.

Sprayers Continued on Next Page.

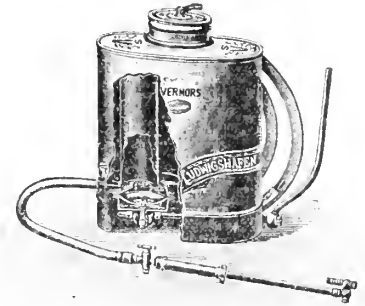


Fig. 2.

### D & B Duster No. 200

For dusting all vegetable and fruit crops as well as cotton, tobacco, etc. Can be used effectively with any kind of dusting material whether it be heavy, light, sticky, or in lumps. Patented Agitators and Feeding Device prevent hanging up of powder in hopper. Powerful air blast breaks up the powder into fine dust and prevents clogging of outlet. Uniform flow of powder always assured. Capacity, 5 to 10 lbs., depending on powder used. For single or double row. Price, \$14.50; postpaid, \$14.75. Fig. 4.

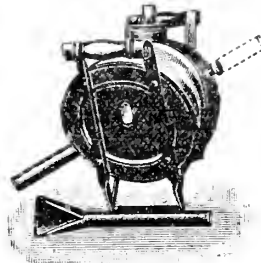


Fig. 3.

### Platz Green Hand Duster

Materials must first be sifted. Discharge pipe can be arranged to throw dust up or down. Has large, powerful leather bellows. Capacity 4 lbs. Price, \$6.00. Fig. 3.

### Duster Brown No. 1

This Duster is adapted for use with all insect powders. A favorite with the housewife. Powder chamber 1 1/4 in. diameter, 4 in. long. Pump 1 1/4 x 12 inches.

Price, 75c; postpaid, 85c.

Cyanogas—Special Hand Duster, \$1.40.

Cyanogas Foot Pump—Small, \$4.75. Postpaid, \$5.00.

Cyanogas Knapsack Duster—\$16.00, postpaid.



MODEL D-2 DUSTER. Fig. 5.

### D & B Duster No. 200

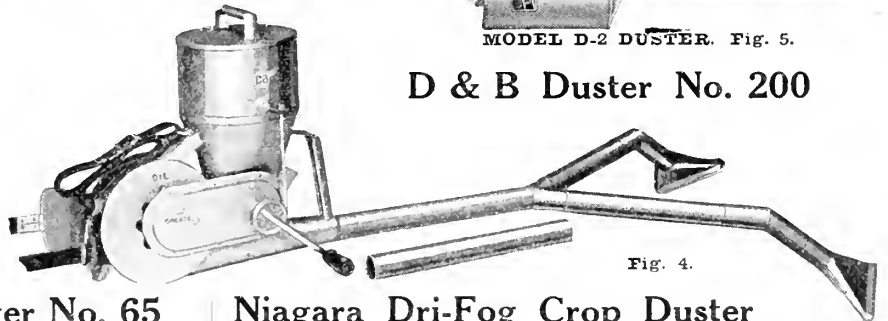


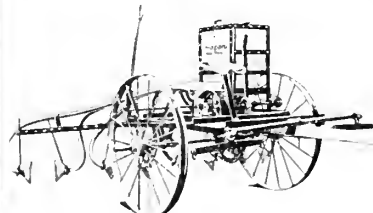
Fig. 4.

### Niagara Dri-Fog Crop Duster

4 Row, 2 Nozzles to each row—accurate feed—even distribution. May be used on potatoes, celery and other field row crops. This machine may also be equipped with scoop nozzles for Bean Beetle dusting.

Niagara Dri-Fog Crop Duster—Price complete, \$210.00.

Scoop Nozzles for Bean Dusting, \$40.00 per set.



## SPRAYERS, HOSE AND HOSE REELS

### No. 28 A, D & C Tin Sprayers



A strong atomizer made of heavy tin used for all light spraying and disinfecting. The pump of the sprayer is fitted with an oil treated leather cup that lasts more than one season, made in three sizes. For parcel post add 10c to each size.

No. 28-D—Pint .....\$ .40  
No. 28-C—Quart ..... .50

### Rubber Hose, Reels, Menders, Etc.

#### MOLDED BRAIDED GARDEN HOSE

It is guaranteed not to break.

Continuous length braided  $\frac{1}{2}$  in. hose. We can furnish any lengths. We can highly recommend this hose. 15c per foot any length without couplings.

$\frac{3}{4}$ -inch hose, 25 feet coupled, \$3.75; 50 ft. \$7.25;  $\frac{1}{2}$ -inch, 10 per foot more;  $\frac{1}{4}$ -inch, 1c per foot less.

**ELECTRIC HOSE**—The best hose obtainable. 20c per foot.

#### SMITH SPRAYER NOZZLE

—Sprinkles like a watering can. Solid brass, very practical. Price, \$1.50, postpaid.

**HOSE NOZZLES**—Combined solid stream and spray. Each 85c, postpaid. (Boston Gem.)

**RAIN KING NOZZLE**—The best yet. \$1.50, postpaid.

#### RAIN KING HOSE COUPLER

—Connects hose to either faucet, sprinkler, nozzle, or hose to hose instantly; saves time; saves the hose. This

hose coupler is machined from solid brass bars and precision made throughout. Fits nozzles, sprinklers, and standard hose connections. Price, 60c, postpaid.

**HOSE MENDERS** (Sure Shot)—15c ea.; \$1.75 per doz., postpaid.

**HOSE COUPLING LINGS**—Brass, regular

size. 25c per pair, postpaid.

**HOSE WASHERS**—Rubber, regular size. 10c per dozen, postpaid.

**HOSE BANDS**—For  $\frac{3}{4}$ ,  $\frac{1}{2}$  and  $\frac{1}{4}$ -inch hose. 5c each, 50c per dozen, postpaid.

**HOSE REELS**—Victor all steel; cap. 75 ft. Price \$2.50. (Fig. 1.)

No. 10 **TUBULAR HOSE REEL**—Cap. 100 feet. Price, \$4.00.

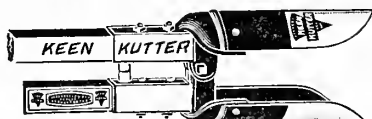
No. 20 **TUBULAR HOSE REEL**—Cap. 150 ft. Price \$5.00. Fig. 2.

**SIAMESE CONNECTIONS**, Regular Size. Each \$1.00, postpaid.

**HOSE NOZZLE FIXTURE**—To be stuck into the ground to hold nozzle of hose. 40c each, postpaid 47c.

### Posthole Digger

Highest Grade Crucible Steel Blades, 12 Gauge, 9 in. deep, 5 in. wide, riveted to heavy shouldered Malleable Iron Frame, with closed handle sockets, 4 in. deep; select ash handles with graduation marks in ft. burned on, from 2 to 4 ft.; will dig hole 6 in. in diameter. Price, \$2.25.



"Keen Cutter" Posthole Digger

### Grape Protecting Bags



If put on during the period when grapes are forming they will save many times their cost in the amount of fruit they will save from insects, rot, birds, etc. All ready to fasten. No. 2 the right size for our domestic grapes. Price, 10c doz.; 50c 100; \$4.25 1,000. Prices on larger bags on application.

Parcel Post weight, 2 lbs. per 100; 15 lbs. per 1,000.

Bag all grapes to keep them from insect stings.

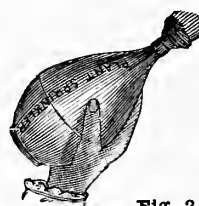


Fig. 2



Fig. 3

### Rubber Plant Sprinklers

No. 28a—3 oz. angle neck. See Fig. 3. \$1.00. Postpaid, \$1.07.

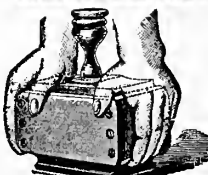
No. 28—Straight neck. See Figure 2. \$1.00. Postpaid, \$1.07.



### Brooms and Brushes

Plain Corn Brooms, extra quality... .75  
Bass Push Broom, 16 inches. (See cut) ..... 1.25

Handles for Push Brooms.....25c each



### Baltimore Pattern Hand-Made Butter Print

This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use.  $\frac{1}{2}$ -lb. Sheaf of Wheat Print, \$1.25 postpaid. 1-lb. Sheaf of Wheat Print, \$1.50 postpaid.  $\frac{1}{2}$  lb. Special Prints, carved with Initials, on application.

#### SEELEY PATTERN BUTTER PRINTER

Furnished with sheaf of wheat. Movable block.  $\frac{1}{2}$  lb. 75c postpaid. 1 lb. 90c postpaid.

**PARCHMENT BUTTER PAPER**—Cut for pound and half-pound prints. Price, 35c per lb., postpaid 42c.

**WELLS, RICHARDSON & CO'S BUTTER COLOR**—The best butter color on the market. Small bottle, colors 500 lbs., 35c; large bottles, 65c and \$1.00. Not mailable.

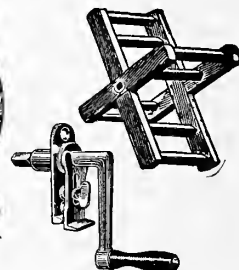
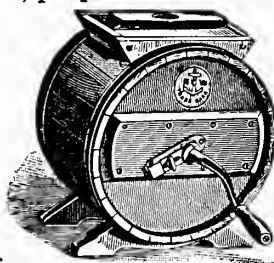
**FLOATING DAIRY THERMOMETER**—30c each, postpaid 35c.

**SO-BOS-SO FLY KILLER (Improved)**—Guaranteed to kill flies and lice on horses, hogs, cattle and mules. Price, \$1.60 gallon.

**BAG BALM**—For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as Bag Balm. Price, 60c, postpaid.

#### IMPROVED CEDAR WOOD CYLINDER CHURN

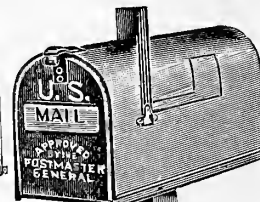
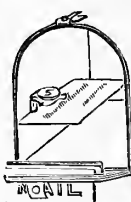
No. 1—3 gal. \$3.75.  
No. 2—4 gal. \$4.50.  
No. 3—7 gal. \$5.25.  
No. 4—10  $\frac{1}{2}$  gal. \$6.00.



**OIL CANS**—Holds 1 pint. Price, 15c. Postpaid, 20c. Filled with oil, 25c. This cannot be mailed.

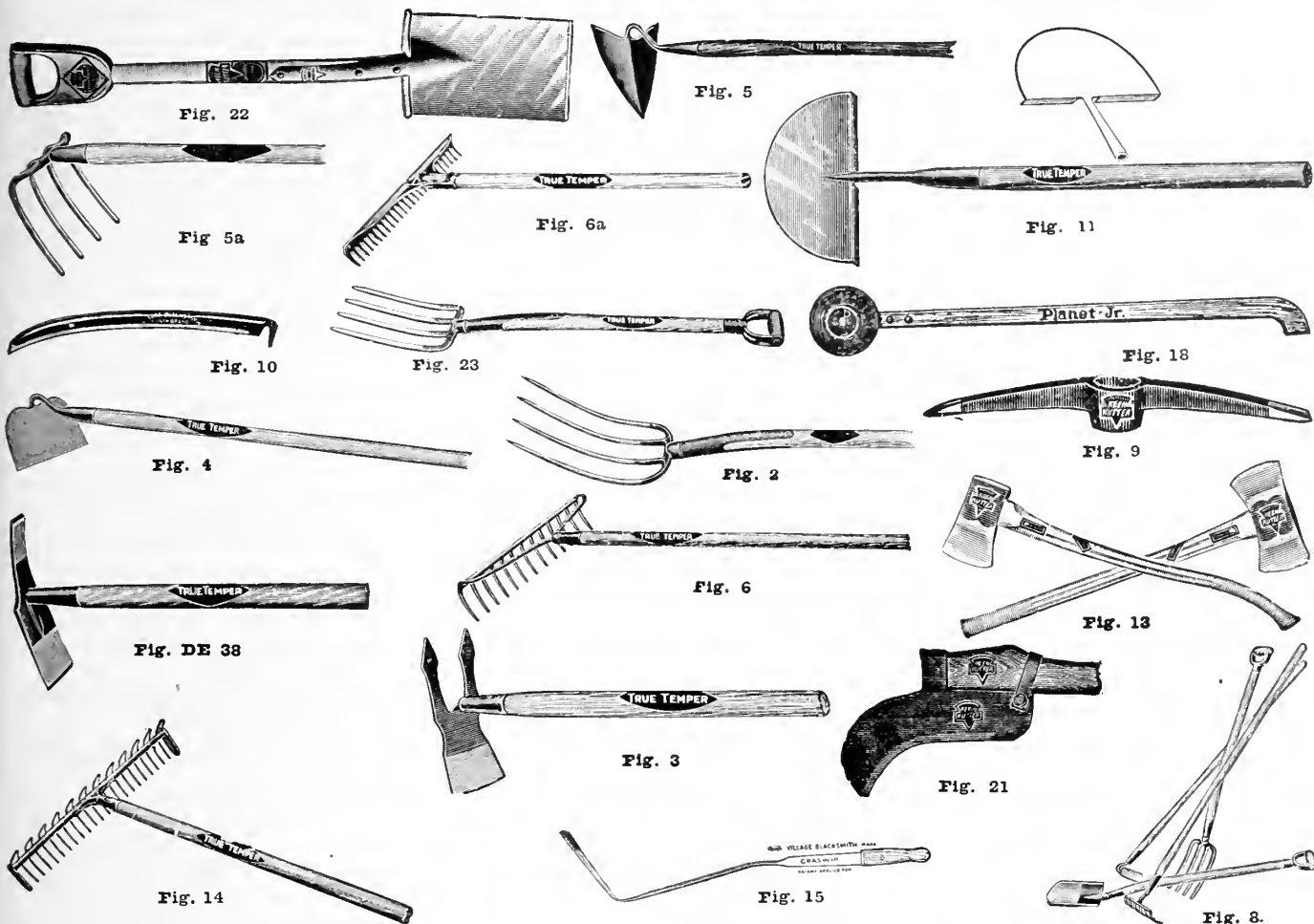
### Rural Mail Boxes

22-Gauge Galvanized Steel. This box conforms with the latest Government rules; is much larger than the old style, for the holding of parcel post packages. Drop in end of box for depositing mail without unlocking; Red Signal raised by mail carrier to show that he has deposited mail in the box. Price, \$3.50; Postpaid, \$3.80.



# M-S FARM AND GARDEN TOOLS

SENT BY EXPRESS OR FREIGHT,  
DUE TO LONG HANDLES.



Shovel, Round Point Long Handle—\$1.75.  
Shovel, Round Point, Ladies' Size—\$1.50.  
Shovel, Sq. Point D Handle No. 3—\$2.25.

Spade, D Handle—\$1.75. Fig. 22.

Dock Cutter No. 39-D—\$1.50.

Spade, Ladies' or Boys' Size—\$1.50.

Spade D Handle Nursery—Double Strap. \$4.50.

Forks—3-tined Hay Fork, \$1.75; 4-tined, long handle, \$1.75.

Fig. 2. Fork—True Temper, 5-tined Manure—D handle. Heavy. \$2.50.

Spading Fork—True Temper—4-tined. Fig. 23. D handle. \$2.00.

Spading Fork—True Temper. Old English, 4-tined, much heavier than the regular. Price, \$2.50.

Hoes—True Temper—Fig. 4. Crucible steel. 6½ and 7½ in., \$1.25; 1-pronged, weeding hoe, 60c; 2-pronged, 70c. Fig. 3. Heart Shaped. Fig. 5. Price, \$1.25.

Hoe, English Scuffle—6 in. \$1. No handle. Handle, 35c extra.

Best Grade Pick—Fig. 9. Price, \$1.50; with handle, \$1.90.

Best Grade Ax—Guaranteed article. \$2.25. Fig. 13.

Best Grade Hatchets—Half Pattern. Best quality. Each, \$1.75.

Best Grade Mattock—Price, \$1.50; with handle, \$1.90.

Heavy Grubbing Hoe—Price, \$1.25; with handle, \$1.65.

Mattock, Pick and Ax Handles—Price, 40c each.

Grubbing Hoe, One-Piece—Extra strong. Fig. No. DE38, \$1.50.

Potato Hook, or 4-Pronged Hoe—Price, \$1.25. Fig. 5a.

## SPEEDY CULTIVATOR



No need to lift the Speedy Cultivator up in the air and drive it into the earth as with a hoe. That's why it cuts in half the time of cultivating. Just push it in close under low-growing plants, then pull it back . . . the four highly tempered tines are sharp and curve at just the right angle to "bite" into the soil and break it up with an easy, pulling motion. Price, \$1.00.

Graswip—The new double edged grass and weed cutter that does away with tiresome stooping. Use it—swing freely and note

how rapidly the double-edged blade cuts on both the forward and backward stroke. Made of forged tool steel. Price, \$1.00, postpaid \$1.10. Fig. 15.

Garden Tool Set—True Temper Ladies' and Children's—Fig. 8. Not toys, but tools that will do and stand the work. Price, \$3.00. Single tools: Shovel, 90c; Rake, 60c; Hoe, 75c; Spading Fork, \$1.00.

Planet Jr. Edger, No. 2—Fig. 18. Made of best material, extremely simple and easy to operate. Price, \$1.75, weight 4 lbs.

True Temper Turf, or Lawn Edger—For edging walks. Price, \$1.25. Fig. 11. See foot rest.

Rake, True Temper—Bow pattern. Fig. 6. 14-tooth, \$1.50.

Rake, True Temper—Regular pattern, 16 tooth. Price, \$1.25.

Rake, Wire Lawn—Heavily reinforced, best made, 24 teeth.

Fig. 14. \$1.00; 46 teeth, \$1.75; 24 teeth self cleaning, \$1.75.

Rake, Lawn—Ole Olsen. All wood, 26 teeth. \$1.00.

Rake Leaf—All Wood, 24 teeth, three steel braces. 90c.

Bush Hook, Best Grade—Fig. 21. Price, \$2.00.

Bush Hook, Little Giant—Lighter than one shown in Fig. 21, but with cutting edge on back. Price, \$1.75.

Scythes, Grass—30, 32 and 34 inches long. Fig. 10. Price, \$2.00.

Scythes, Weed and Bush—18, 22, 26, 28 inches long. Price, \$2.00.

Sythe, Grass—Imported. Riveted back. 32, 34, 36 in., \$2.75.

Snaths No. 2—Special railroad, extra heavy construction, designed for heavy duty; has a heavy loop bolt and wing nut easily tightened by hand. Price, \$2.00. No. 1 Lighter construction, \$1.75.

Whetstones—Carborundum, 35c. Talacre Stone, 25c each.

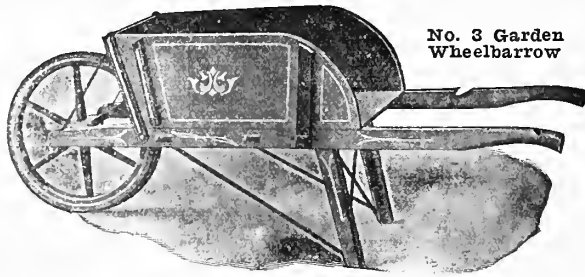
## ENGLISH TURFING SPADES OR SOD LIFTERS Heart Shape

No. 1—8x9½ Blade . . . . . \$6.50

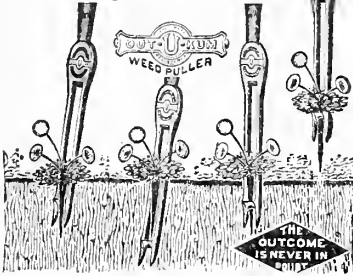
No. 2—8—8½x10½ Blade . . . . . 7.00

No. 3—9x11½ Blade . . . . . 7.50

## M. - S. LAWN AND GARDEN ACCESSORIES

No. 3 Garden  
WheelbarrowThe "OUT-U-KUM" WEED  
PULLER  
An Entirely New Principle

A slight Push and Pull thoroughly loosens the surrounding soil and removes not only the weed, but the ENTIRE ROOT, with little or no clinging soil.



Price, 75c. Postpaid, 85c.

Wonder Dandelion Digger—50c, postpaid.

"Dandelion"

Spuds—Fig. 17a. A practical weeder; long handle.

Price, 35c. Postpaid 42c.



Fig. 11.

Eureka Garden Weeder—Fig. 11. 50c. Postpaid, 57c. Same with 2 ft. handle, 60c. Postpaid, 68c. 4 ft. handle, 75c. Postpaid, 83c.



Fig. 13

\$1.10. Postpaid, \$1.20. Style K—4 ft. handle, 3 heavy tines and V-blade, \$1.10. Postpaid, \$1.20.

Kneeling Pads—Found most convenient and serviceable for many uses, in gardening and housekeeping. Made of best Para rubber, \$1.00 postpaid.



Fig. 21.

the garden. Price, 1b. 30c, postpaid 37c. Hanks contain about 2½ lbs.; 25 lbs. or more, at 25c lb. Special price on larger quantities. Postage extra.

Green Raffia, 85c lb., postpaid 92c.

Red Tape for tying asparagus, 1,000 yards, \$2.75—postpaid, \$2.85.

No. 3 Wheelbarrow, for Garden and Farm Use—A durable, neat garden barrow. Size of body, 26 in. long, 19 in. wide in front, 22 in. wide at back. Sideboards, 27 in. long, 12 in. high; handles, 4 feet 9 inches long; 2x1½ in. wheel; 20 in. diameter; 6 spokes. Price, \$7.50; set up, \$8.00. Boys or Ladies' Size—\$5.00; set up, \$5.50. Farm Size—\$9.00; set up, \$9.50.

Wire Leaf Rack—Can be used with No. 3 or Farm Size Wheelbarrow, \$7.50.



Fig. 17

Asparagus Knife—Which makes a fine weeder as well. Fig. 17. Price, 40c; Postpaid, 47c.

Fig. 17a.

English Weeding Fork No. 8125—Solid steel. Note convenient handle—a very handy tool. Price 75c, postpaid 82c.

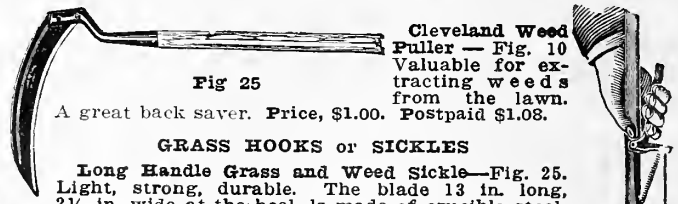


Fig. 25

A great back saver. Price, \$1.00. Postpaid \$1.08.

## GRASS HOOKS or SICKLES

Long Handle Grass and Weed Sickle—Fig. 25. Light, strong, durable. The blade 13 in. long, 2¼ in. wide at the heel, is made of crucible steel, oil tempered and sharpened to a razor edge. Price, \$1.25. Postpaid \$1.33.

Lawn Queen Grass Hook—Fully polished, best material, \$1.00. Postpaid, \$1.10.

No. 2—English Grass Hook. Riveted back. Price, 75c. Postpaid 85c.

Nowatoco Grass Hook—Price, 75c. Postpaid 85c.

German Grass Hook No. 2. Very durable; good material. 40c; postpaid 45c.



Fig. 21



Fig. 21a.

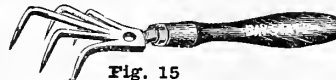


Fig. 15



Fig. 24.

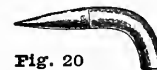


Fig. 20

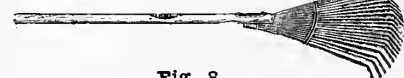


Fig. 8.



Fig. 19.

Garden Fork or Weeder—Fig. 24. 50c. Postpaid, 57c. Steel Trowel D. S. T.—Fig. 21. Drop Shank, best made. \$1.00, Straight Shank, Fig. 21a, \$1.00, either \$1.10, postpaid.

No. 212 One-Piece Trowels—50c. Fig. 22. Postpaid 55c.

No. 215 7-Inch Trowel—Fig. 23. Price 25c; postpaid, 30c.

Excelsior Weeder—Five teeth. Fig. 15. Price, 20c; postpaid 25c.

No. 217 Transplanting Trowels—Fig. 19. Price, 25c; postpaid, 30c. Dibbles, or Planting Pegs—Bent wood handle. Fig. 20. 65c. Postpaid, 73c. D. Handle Dibble, 85c. Postpaid, 93c.

Lang's Hand Weeder—Handiest tool on earth. 25c, postpaid 30c. Garden Set (Homeland)—Consisting of trowel, weeder and cultivator made of pressed steel, very strong. Price, 50c postpaid.

TRUE TEMPER  
BROOM RAKE

A general outdoor broom for lawns, gravel paths and gardens—is a practical necessity for every residence. Price, \$1.00; postpaid, \$1.10. Fig. 8.

JAPANESE  
BROOM RAKE

Price 75c, 85c postpaid; larger size, \$1.25, postpaid \$1.35.

NORCROSS  
CULTIVATORS AND  
WEEDERS

Three sizes and prices. Fig. 14. 5-pronged, 4 ft. handle, \$1.15; 3-pronged 4-ft. handle, 85c; "Mid-get," 9-in. handle, 45c. Weight, 3 lbs., 2 lbs., 12 oz.

**LANG'S  
HAND  
WEEDER**  
HANDIEST  
TOOL  
ON EARTH.



Fig. 14



## The "Little Wonder" Hedge Trimmers—Hand and Electric Models



Top Cut

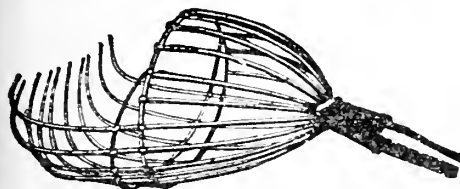
	Prices	Hand-driven	Electric
30 in. size Hedge Trimmer..	\$25.00		\$103.00
40 in. size Hedge Trimmer..	27.50		106.50
60 in. size Hedge Trimmer..	35.00		114.00
Side Cutting Carriage for Hedge Trimmers .....			4.50
Lawn Clipper Attachment for Hedge Trimmers .....			18.00
30 in. size Lawn Weed Clipper, complete .....			35.00
40 in. size Lawn Weed Clipper, complete .....			40.00



Side Cut

## Fruit Picker

The Best Fruit Is Always Out of Reach



Peerless—For the careful picking of ripe fruit this is the best; it has no sharp end of wire exposed to injure ripe fruit. Price, 60c, postpaid 70c.

This cut almost speaks for itself—the device, being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy wire, and easily adjusted to a pole. Price 40c. 50c postpaid.

## Grass and Sheep Shears—All Postpaid

- No. 346—Imported very good steel, 5½ in. 50c.
- No. 355—Fine polished, 5½ in. shears. 75c.
- No. 3074—Imported 5½ in. steel shears, full polished. Price, \$1.25.
- No. 3075—The best shears; made of high tempered English steel. \$2.00.

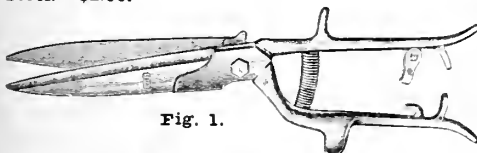


Fig. 1.

No. 117—Pexto, like above. Does not have offset handle. \$1.00.

No. 600 Wiss Grass Shear, with offset handles, Fig. No. 1. Price, \$1.50.

## The New Wiss-Klip Grass Shears



These new style "Wiss-Klip" Grass Shears are equipped with adjusting nuts and swinging shackle which enables the blades to be spread apart for resharpening. In addition the shackle acts as a brace when the blades are in action and gives added strength. Handles are of handsome non-chipping gun metal finish and are knurled to prevent slipping. For resharpening loosen one nut, swing back shackle and spread blades apart.

No. 700—Length over all, 12 ins. Weight, 1 lb. Price, \$1.50; postpaid, \$1.58.

## Gonnson Disc Cultivator

8 Disc, \$1.50.



## M.-S. Water Ballast Lawn and Tennis Court Rollers

No. 601—Diam. 14 in., length 24 in., weight empty 60 lbs. Price, \$17.00.

No. 602—Diam. 18 in., length 24 in., weight empty 75 lbs., weight filled with water 330 lbs. Price, \$20.00.

No. 603—Diam. 24 in., length 24 in., weight empty 110 lbs., weight filled with water 440 lbs. Price \$23.00.

No. 604—Diam. 24 in., length 32 in., weight empty 115 lbs. Price, \$26.00.

No. 607—Diam. 14 in., length 15 in., weight empty 50 lbs. Price, \$12.65.

## CAST STEEL ROLLER BEARING LAWN ROLLER

No. 501—Diam. 15 in., 2 sec., wt. 175 lbs., length 15", \$18.00

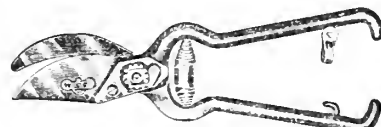
No. 504—Diam. 20 in., 2 sec., wt. 250 lbs., length 20", \$24.00

No. 507—Diam. 20 in., 2 sec., wt. 300 lbs., length 24 in., \$28.00.

## Hand Pruning Shears—All Postpaid

No. 109 Wiss Hand Pruner—Strongest and best pruner made. \$3.00.

No. R-65, 9-inch—Full polished with ratchet and double flat brass spring Price, \$1.75.



No. R-70, 9-inch—Similar to illustration, with adjusting nut and regulating ratchet, steel blades of extra quality steel. Price, \$1.50.

No. 50, 9 inch—A good pruner. Price, 90c.



No. 50

No. 14, 6 inch—Ladies' pruner; full polished. \$1.25.

Flower Scissors No. 575—Nickle plated. \$1.50.

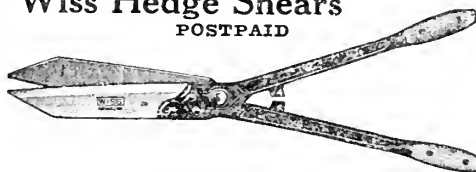
No. C-4, 7½-inch—Wiss flower thinning Shear. Used in cutting flowers, grapes, fruit, etc. \$1.25.

No. 576—Imported, best finished, sure to hold flower after being cut. Price, \$2.00.



Flower Scissors, No. 576.

## Wiss Hedge Shears POSTPAID



These shears are made to meet the demand for a better-balanced, easier cutting, and more durable hedge clipper. 8, 9 and 10-inch also furnished with wooden handles.

Size.....	6½	7½	8	9	10
Price, each.....	\$2.75	\$3.00	\$3.25	\$3.50	\$4.00

Solid Steel Hedge Shears—12 in. All equipped with notch; the notch is very useful in heavy trimming or lopping. Handles bolted on, cannot come apart. Parcel post weight on all hedge shears, 3 lbs.

8-inch.....\$2.25 9-inch.....\$2.50

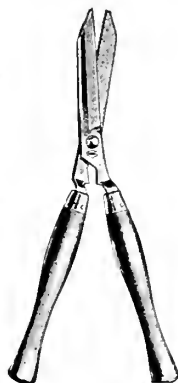
10-inch.....2.75 12-inch.....3.50

Ladies' Hedge Shears—5½ inch cut. Price, \$1.50.

Lawn Shears, Imported—Two wheels, 9-inch blade, long handle for cutting on narrow borders, under fences and shrubs. Price, \$4.50. Parcel post weight, 5 pounds.

Border Shears—Same as above, but the blades are shaped vertical for trimming borders. Price, \$4.25. Parcel post weight, 5 lbs.

Hy-Lo Grass Shears No. 595—Similar to above, with long handles, but much lighter. Will do efficient work. Price, \$1.50; postpaid \$1.60.



Hedge Shears—Postpaid.

# M.-S. PRUNING TOOLS, ETC.

## Rhodes Double-Cut Lopping Shears

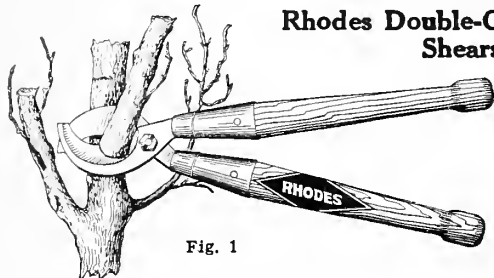


Fig. 1

Fig. 1. For trimming trees, bushes, heavy shrubbery, etc. Makes an absolutely clean, perfect cut; 26 inch handle.

Price, \$5.00.

Parcel post wt. 5 pounds.

**"Keen Kutter" Pruning Shears**—Curved blade and hook. Forged steel; polished and tempered, ratchet tightening knot; extra heavy and long steel ferrules; handles riveted through ferrules and tang; 24-inch hardwood handles. Price, \$2.50. Parcel post weight, 4 lbs.

**Draw Cut Pruning Shears**—Made of best material, very strong and clean cutting. No. 5400—24-in. handle, \$3.25. Parcel post weight, 5 lbs.

**"KEEN KUTTER" TREE PRUNER**—Made of best material. 10 ft. Price, \$2.50; 12 ft. \$2.75.

**RHODES LONG-HANDLED PRUNER**—Twelve foot handle; equipped with pulley. Price \$12.00.

Express or freight only.



Fig. 24

**Jointed Pole Tree Trimmer**—Fig. 24. 12 feet long, can readily be transformed to 8 foot trimmer; made of the best material; very strong. Price, \$7.00. Parcel Post weight, 8 lbs.

Extra blades, 40c each.

**No. 1 Tree Trimmer**—No. 1 has a compound lever head and is made with a hook and side lever. It is calculated for light and heavy work and will cut a limb up to 1 1/4 inches in diameter. 6 ft., \$5.75; 8 ft., \$6.00; 10 and 12 ft., \$6.25; 14 ft., \$6.50; 16 ft., \$6.75. Express or freight only.



No. 1 Head in Detail.

**TELEGRAPH TREE PRUNER**—To be attached to pole. Price \$1.50; postpaid \$1.60.

**THE RHODES POLE PARAGON PRUNING SAW**—For cutting large limbs high up; adjustable to any angle; 10-foot pole. Price, \$4.00. Express or freight.

**Pruning Saws**—Made of the very best material, either double or single cutting edge, \$2.00. Fig. 8. Weight, 2 lbs.

**Pruning Knife, No. 1**—Wood handle. \$1.10, postpaid.

Fig. 8

**Budding Knife, No. 24278**—Double blade; pruning and budding; bone handle. \$1.25, postpaid.

**GRAFTING WAX**—1/4 lb. 15c; 1/2 lb. 25c; 1 lb. 40c.



**Hotbed Thermometer**—Brass point. Price, \$3.00.

**Regular Thermometer**—Nicely finished. Price, \$1.00.

**Self-Regulating Hothouse Thermometer**—Best grade, \$7.00.

For Parcel Post, add 10c on any of the three listed.



## Fountain Sprinkler

Made of Heavy Brass.

Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty." Price, \$1.00, postpaid.

Half-Circle Sprinkler, 85c, postpaid.

## Rain King Sprinklers

**STANDARD**—Price \$3.50, postpaid.

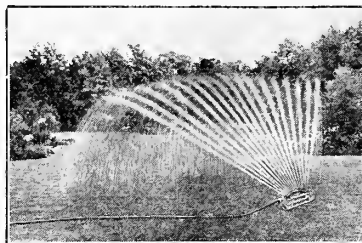
**GIANT RAIN KING**—Like Standard, but is four feet high and has four nozzles. \$12.50; postpaid, \$12.75.

**MAJESTIC**—Hands 15" high; very sturdy; has bird bath attached. Price \$5.00, postpaid.



## Waterfan

An Automatic Oscillating Machine



It is a Real Rain Making Machine consisting of a little turbine water motor closely connected to a short (18") Distribution Pipe and mounted on a small triangular sled-like frame.

The prominent features of the Waterfan are:

Its ability to cover a rectangular area.

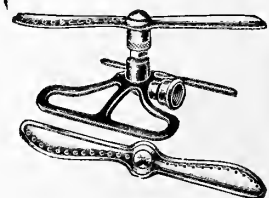
Its sled-like frame, for easy moving.

Its rain-like distribution of the water.

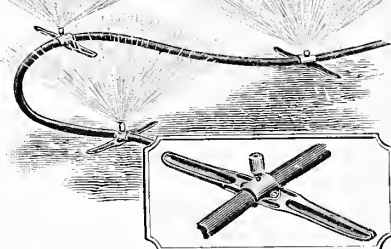
Price No. 7 covers space 40x45 ft. \$16.50, postpaid.

## Aero Mist Sprinkler

This new Sprinkler represents our latest contribution to scientific sprinkling by the rotary method. The brass revolving vane is shaped like a propeller and as it spins about forces the water in a mist-like spray over an unusually large area. The heavy green enameled iron base is sturdily constructed and the Sprinkler may be moved about by means of the hose without shutting off the water. Price \$1.40, postpaid \$1.50.



## MIST-O-SPRAY



**New Lawn Sprinkling Method.** This remarkable new system of sprinkling lawns, shrubs and flowers is simple, practical and inexpensive. For the 25 ft. garden hose, a set of three Mist-O-Spray units placed at intervals of 12 feet. For 50 ft. hose place five units at intervals of 12 feet.

Set of 3 Units.  
Per set.....\$2.95  
Postpaid.

Complete with 25 feet of hose, ready for use, \$6.50, postpaid.

## Hot Bed Mats, Sash and Glass

**Hotbed Mats**—Burlap covered, 40x76 size, covers one sash. \$2.00 each; 76x76, covers two. \$3.25 each. Price subject to change. Express or freight. Fig. 23.

**Hotbed Glass**—Box of 90 panes, 8x10. \$3.00. Price subject to change. Express or freight.

**Hot Bed Sash**—Made to hold either 24 or 28 8x10 panes. These sashes are grooved so that the panes slide in and butt one against the other. \$2.25 each. Price subject to change. Express or freight.

**Putty Bulbs**—For applying liquid putty. Fig. 22. Price, \$1.50. Parcel post wt. 1 lb.

**Peerless Glazing Points**—The finest glazing points on the market. Per box of 1,000, 75c. Parcel Post weight, 1 lb.

**Mastica Machine**—For distributing mastica, etc. Made of heavy zinc. Price, \$2.75 (by mail, 10c extra).

**Mastica**—For glazing greenhouses. One gallon will cover about 300 running feet. One gallon \$2.40. Weight 18 lbs.

## ASBESTOS TORCH

This is the most practical satisfactory device yet found for burning caterpillars, worms and other tree pests. Price, 60c; postpaid, 70c.



Fig. 22

# SKINNER SYSTEM SPRINKLERS

COMPLETE CATALOG ON REQUEST



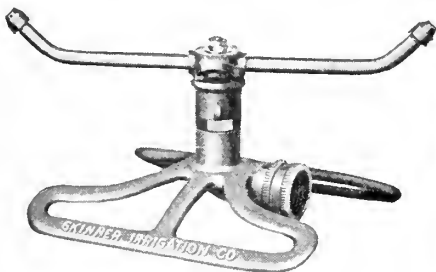
## Rain Wave Automatic Sprinkler

This miniature Skinner System weighs only 17 pounds, yet does the work of a sixty-foot line automatically. The sixteen silver stream nozzles in the arch wave slowly back and forth distributing that fine, even spray which has made silver stream nozzles famous.

With simple, easily made adjustments, you can water from 10 x 60 to 60 x 60 feet or have a stationary sprinkler.

Price, \$35.00, f. o. b. Baltimore. Information on Skinner System longer lines sent on request.

## The Mor-Rain



A very high grade rotary sprinkler convertible to a border spray with a quickly made adjustment. In the rotating position circles up to 40 feet in diameter with an even gentle spray.

The half circle spray with its very fine mist reaching out to 18 or 20 feet is ideal for borders and shrubbery.

The Tobin bronze bearings fitted with Bakelite washers assure you years of service.

Price, \$3.00; postpaid, \$3.15.



## Lawn Irrigation

Concealed heads buried in the lawn. Fed by underground piping. Controlled by the turn of a valve.

Heads cover 20-ft. circle.

All brass. Furnished in full, half and quarter circle.

Prices: PS. Pop-Up Type Head.....\$6.00 each  
No. 3 Pop-Up Type Head..... 2.50 each  
No. 2 Stationary Head..... 1.00 each

## Garden Irrigation

Irrigation lines cover 50 ft. wide at 30 lb pressure.

Require 7 gals. per minute per 100 feet.

Complete and ready to use.

Automatic oscillator, \$25.00 additional.

Full Instruction Sheet  
Furnished



	Stationary Lines	Portable Lines
50 Foot .....	\$15.75	\$17.75
100 Foot .....	25.75	33.75
150 Foot .....	36.75	50.75
200 Foot .....	48.75	68.75
250 Foot .....	69.75	91.00

F. O. B. Factory.

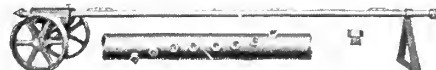
## The Peacock

A particularly beautiful as well as very popular sprinkler. The fan-shaped spray coming from the spiral groups of silver stream nozzles resembles the spread of a peacock's tail hence the name.

The Peacock Sprinkler is 12½ feet long and can be used singly or in tandem. Each sprinkler covers a space 15 x 50 ft. Price, \$15.00, f. o. b. Baltimore.



**THE PEACOCK JR.** is 7 feet long, doing the same work as the larger one on a smaller scale. Price, \$8.50, f. o. b. Baltimore.



## Border Mist Sprinklers



These fine one-way sprinklers last a lifetime and will spread their mist-like spray over a space 16 feet wide by 16 feet long, or can be narrowed down to even 30 inches in width.

The ideal sprinkler along walks or shrubbery where one-way watering is desired. The handle on the end permits directing the spray to any angle or



completely reversing it.

Total length 15 ft. Weight 20 lbs. Express shipments recommended. Price, \$12.50, f. o. b. Baltimore.

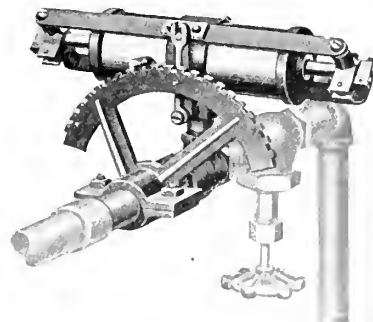
**LAWN MIST**—Made in Senior or Junior sizes, covers a width 16 ft. constructed like Border Mist, except nozzles. Prices, \$12.50 and \$8.00, f. o. b. Baltimore, Md.

## Type "C" Oscillator

For Heavy Duty Irrigation on Large Truck Areas or Estates.  
**WITH ALL-BRASS TURNING UNION**  
**POWERFUL — DEPENDABLE**

### Six Features

1. Operates without reduction of pressure on the sprinkling line.
2. Swinging nozzle exhaust, avoids puddling from the waste water.
3. All wearing parts easily and cheaply renewed.
4. Positive valve throw.
5. Large cylinder area. Leverage principle multiplies power.
6. Can be set to water any part of ground covered by the nozzle line.



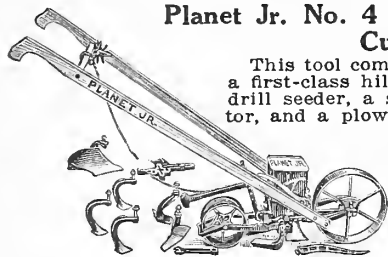
The Type "C" Oscillator will turn any line from 50 feet up to and including six hundred feet. Can be started and stopped by the turn of a small valve and is easily adjusted to cover any desired width. Prices as follows:

For ¾-inch pipe.....	\$27.50
For 1-inch pipe.....	28.50
For 1¼-inch pipe.....	29.50
For 1½-inch pipe.....	29.95
For 2-inch pipe.....	30.50
Anti-backlash attachment \$1.50 extra.	

## PLANET JR. FARM AND GARDEN TOOLS

Are the greatest savers of time, labor, and money ever invented for the farm and garden. They pay for themselves in a single season in bigger and better crops, and last a lifetime. Fully guaranteed.

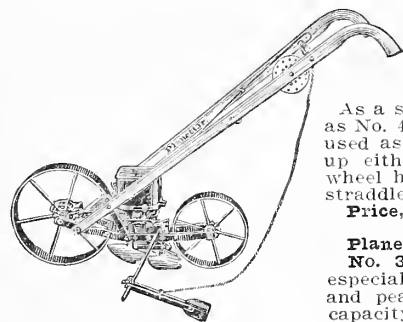
### Planet Jr. No. 4 Combined Seeder and Cultivator



This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. Price, \$18.00, 50 lb.

No. 4-D (As a Seeder only), \$14.25, 40 lb.

### No. 25 Combined Seeder, Double and Single Wheel Hoe



As a seeder this tool is the same as No. 4 described above but when used as a cultivator it can be set up either as a double or single wheel hoe. Has steel frames and straddles crops until 20 ins. high. Price, \$21.50. Weight 61 lbs.

Planet Jr. No. 300 Drill Seeder  
No. 300 Seeder—A new tool especially adapted for beans, corn and peas. Price, \$20.00. Hopper capacity, 4 qts.

No. 300 Seeder

### The Planet Seeder Attachment No. 35

Will pay for itself in a short time because it saves seed by sowing accurately. It is very easy to operate and drills almost all kind of garden seed from the smallest up to peas and beans. The shoe is adjustable for any depth desired and the coverer swings free. Attaches to any Planet Jr. Hand Cultivator. Sent postpaid. Price, \$6.50.

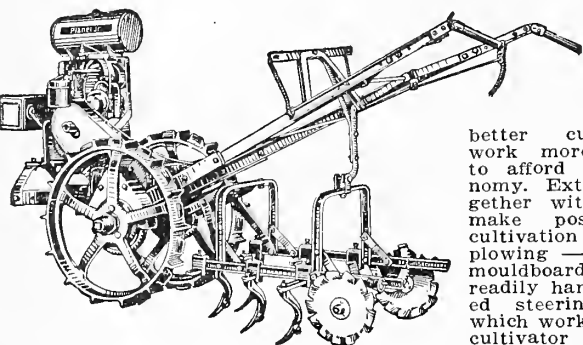
### Star Pulverizer, Weeder and Cultivator



Price, \$3.00.

The star discs break up the soil and the oscillating blade—which works forward and backward—pulverizes and levels the soil, and at the same time cuts off the weeds directly beneath the surface. Can be used right after a rain to cultivate, and will not leave the ground in a lumpy condition. 6 lbs.

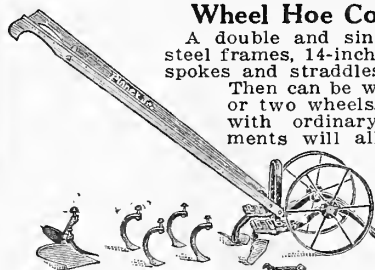
### Planet Jr. Motor Cultivator



The Planet Jr. Motor Cultivator is built to a wider range of work, to do faster and better cultivation, to work more easily, and to afford greater economy. Extra weight together with ample power make possible heavy cultivation and real plowing—a six-inch mouldboard plow being readily handled. Patented steering control which works like a horse cultivator (pressing on the right handle to turn to the right, etc.), make possible fine, close cultivation.

Complete catalogue and price on request.

### Planet Jr. No. 12 Double and Single Wheel Hoe Combined



A double and single wheel hoe in one. Has steel frames, 14-inch steel wheel with heavy steel spokes and straddles crops until 20 inches high. Then can be worked between rows with one or two wheels. Does the work of six men with ordinary hand hoes. The attachments will all be found useful from the beginning to the end of the season. Price, \$10.75. 33 lbs.

No. 11 PLANET JR.—Like the above, but in addition has one pair 4½ inch hoes, two 3-tooth rakes and two 5-tooth rakes. Price, \$13.75. 39 lbs.

No. 13 PLANET JR.—Only equipped with one pair of 6-inch hoes. Price, \$8.00. The No. 12 is the most popular tool. 28 lbs.

### Planet Jr. No. 16 Single Wheel Hoe

These single wheel hoes are the highest type of their class. They have a great variety of attachments which adapt them to a large variety of work, and there is scarcely any garden cultivation they will not do. Nos. 16 and 17 have the same steel wheels, frames and handles, but the attachments sold with each vary. The handles are adjustable in height. The frame is steel, convenient and



strong with a simple device by which to exchange the tools without removing the nuts. All attachments are of a special pattern, carefully tested by practical men; no others ever offered compare with them. All the steel parts are high carbon steel, oil tempered and specially hardened, finely formed, finished and polished and work to a charm. Price, \$9.00. 24 lbs.

No. 17 Single Wheel Hoe.



Planet Jr. No. 17 Single Wheel Hoe—Same as No. 16, but has no rakes or leaf lifter. Price, \$7.75. Weight 24 lbs.

No. 17½ PLANET JR. Equipped with hoes and

leaf lifter. Price, 6.75. Weight 21 lbs.

No. 18 PLANET JR.—Only equipped with one pair 6-in. hoes. Price, \$5.75. Weight 19 lbs.

No. 19 PLANET JR.—Similar to above, but has higher wheel (15 inch), equipped with cultivator tooth, sweep, plow and 6 prgd. cultivating attachment. Price, \$6.00. Weight 21 lbs.

### No. 119 Planet Jr. Garden Plow and Cultivator



This new member of the "Planet Jr." family is equipped so completely that it will meet all the needs of the ordinary garden. It has a 24-inch wheel 1½ inch wide. The plow is very strong, the cultivator tooth is good and wide, the 3-pronged Cultivator is excellent for breaking of the soil, the center tooth of same is removable, the scuffle hoe fine for weed cutting and the handles very strong and adjustable to suit adult or child.

Price, complete, \$4.75

Weight 17 lbs.

### "Firefly" Garden Plow



Very useful for small gardens. Will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. Furrows for manure or seed can be opened and covered. Chicken raisers find it of great advantage in plowing up the scratching yards.

Weight, 14 lbs. Price, \$4.25.

72-PAGE PLANET CATALOG FREE Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.



## No. 100-D Planet Jr. Plain Cultivator

We offer this cultivator with the object of filling a definite need where lands are light or where farming is done on a modest scale. It weighs but 42 pounds. It will stand hard usage and do excellent work. A steady running tool and easy to handle and adjust. Weight, 42 lbs. Price, with wheel, \$9.25.

No. 107D—Similar to the No. 100D but has seven teeth and lever expander. Price, with wheel, \$12.75.



No. 100  
Cultivator  
with Cast  
Wheel,  
\$9.25.

No. 4D PLAIN CULTIVATOR, less wheel. Weight 49 lbs. Price, \$8.50.



## No. 9 Planet Jr. Plain Cultivator

Equipped with four 3"x8" Cultivator Steels and one 4"x8" Cultivator Steel, which are patented and beveled; especially hardened. Tool is adjustable to any useful width by use of the lever expander, and every part is perfected to make the tool acceptable to the farmer.

Price,  
No. 9,  
\$12.75.

Same tool without wheel, \$10.75.

## No. 4 Planet Jr. Horse Hoe and Cultivator

This tool is low in price, strong and simple. It is the modern cultivator for either garden or field use, for furrowing, covering and cultivating. Price, with steel wheel, \$12.25; without wheel, \$10.25.



No. 4 Horse Hoe

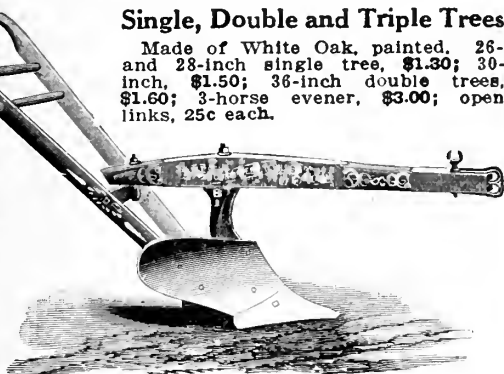
No. 9 PLANET JR. HORSE HOE AND CULTIVATOR—Identical with the above, but has lever expander. Price, with steel wheel, \$14.25; without wheel, \$12.25.

No. 7 PLANET JR. HORSE HOE AND CULTIVATOR—Same tool as No. 4 and No. 9, but is also equipped with depth regulating level wheel. Price, \$15.75.

## Single, Double and Triple Trees

Made of White Oak, painted, 26- and 28-inch single tree, \$1.30; 30-inch, \$1.50; 36-inch double trees, \$1.60; 3-horse eveners, \$3.00; open links, 25c each.

U-Bar Steel Double and Single Tree, complete. 36" Double and 26" Single Trees, \$3.00 per set.



Oliver Pattern Wood and Steel Beam Plows

	Wood Beam Plow	Steel Beam Plow	Shares	Slip Shares	Lands	Mould-boards	Wood Beams
No. A	\$10.50	\$10.50	\$0.35	.....	\$0.70	\$2.10	\$3.85
No. B	12.75	12.75	.45	.....	1.00	2.75	3.85
No. 10	16.00	16.00	.60	.75	1.05	3.00	3.85
No. 13	18.00	18.00	.70	.85	1.25	4.00	3.85
No. 19	19.50	19.50	.75	.90	1.35	4.25	4.15
No. 20	21.00	21.00	.85	1.00	1.40	4.50	4.15
No. E	24.00	.....	.85	1.05	1.45	5.00	4.15
No. 40	24.00	24.00	.90	1.05	1.45	5.00	4.15

Prices for plows include extra Share and Wrench. The following are extra: Wheel, complete, \$2.00; Jointer, complete, \$4.50; Steel Beam Jointer, \$4.50. State if Wood or Steel Beam.

We can also furnish the "Syracuse" and other leading plows and the repairs. Prices will be furnished upon application.

In ordering, mention "Wood" or "Steel" beam, right or left-hand.

Single Handles. \$1.00 each. Rounds, 25c a pair.

Bolts for Mouldboard, Landside, Shares and Jointers, 5c each.

## Planet Jr. Twelve-Tooth Harrow Cultivator and Pulverizer

No. 90, complete, \$17.00;  
No. 90-B, without pulverizer, \$13.75; No. 90-D, without pulverizer or wheel, \$10.75.

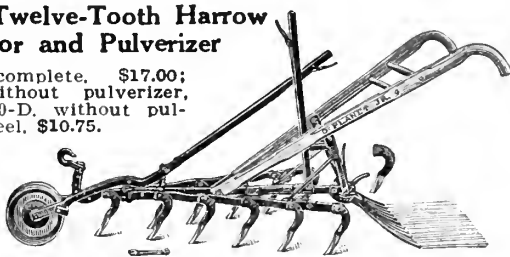
## SHOVEL PLOWS

Single Shovel Plow, \$4.20.

Double Shovel Plow, \$4.60.

Triple Shovel Plow, \$6.60.

Blades for same, 16c lb.



## Planet Jr. Cultivator Teeth.

1 1/2 x 8 in. Steels	..... 17	3 x 8 in. Steels	..... 22
1 3/4 x 8 in. Steels	..... 18	4 x 8 in. Steels	..... 27
2 1/4 x 8 in. Steels	..... 20		

"Planet Jr." 7-inch Hind Shovel, 35c; "Planet Jr." 8-inch Hind Shovel, 40c. Bolts for all Cultivator Teeth at 5c each.

## Boss Plows and Repairs

PLOWS		SHARES	
1 Rig....Comp.....	\$ 7.50	Cabbage	.....\$0.35
2 Rig....Comp.....	8.50	1 1/2 and 2	..... .40
3 Rig....Comp.....	9.50	2 1/2 and 3	..... .45
4 Rig....Comp.....	10.50	No. 20	..... .55
MOULD BOARDS		MISCELLANEOUS	
Cabbage	.....\$0.35	Land Sides	.....\$ .60
1 1/2 and 2	..... .70	Cleives	..... .40
2 1/2 and 3	..... .85	Bolts (All)	..... .05
No. 20	..... 1.35	Standards	..... 2.75
Board and Share	..... 3.00	Handles (C)	..... 1.50
Double Shares	..... 1.00	Handles (L)	..... .65
		Beams	..... 1.00

## Chattanooga Plow and Repairs No. 65

2-Horse R. H. S. Beam Plow	.....\$20.00		
Gauge Wheel	..... 2.00		
Jointer	..... 4.50		
SHARES		MISCELLANEOUS	
No. 65 Solid	.....\$0.85	Land Sides	.....\$1.50
No. 65 Slip	..... 1.05	Jointer Pt.	..... .30
Extra Slips	..... .20	Mould Board	..... 4.00

## Barker Weeder, Mulcher and Cultivator



**BARKER**  
WEEDER-MULCHER-CULTIVATOR

## Barker, Jr.

Baby No. 6 is the best small garden weeder and mulcher on the market. The very low price makes it attractive. Weeds and mulches a strip 6 inches wide. Retail price, \$7.25.

No. 8 1/2 Barker Jr. weeds and mulches a strip 8 1/2 inches wide. Has three shovels, and leafguards. Price, \$7.95.

## The Barker

No. 10-D—Strong, and most useful size. Lower knife cuts ten-inch strip. Favorite for large gardens and with truck growers. Equipped with three shovels, and leafguards. Price \$10.60.

No. 11-D—Especially adapted for use where rows are fifteen inches or more apart. Weeds and mulches eleven-inch strip. Has three shovels, and leafguards. Price \$11.75.

No. 12-D—Best size where rows are two or three feet apart. Weeds and mulches a strip one foot in width. Has three shovels, and leafguards. Price, \$12.60.

## Success Flower Boxes



The Success Plant Box is made of strong galvanized iron, neatly enameled in dark green. It is so constructed that the watering is easy, the drainage ample, the air circulation perfect.

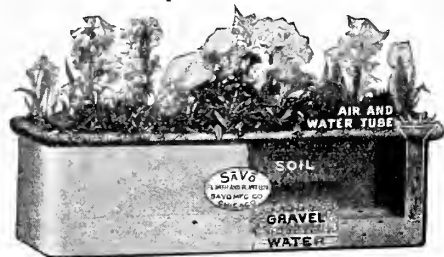
Plants thrive wonderfully in these boxes. For window or porch use they are ideal, as, under no drip. No staining of

less excessively over-watered, there is no paint or disfiguring in any way.

	Length.	Width.	Depth.	Each.	Postpaid.
Flower Boxes.....	24 ins.	8½ ins.	6¼ ins.	\$1.50	\$1.60
Flower Boxes.....	30 ins.	8½ ins.	6¼ ins.	1.75	1.90
Flower Boxes.....	36 ins.	8½ ins.	6¼ ins.	2.50	2.65

### Brackets for Window Boxes

No. 1—For setting on sill.....	\$0.80 per Pair, postpaid
No. 2—For hanging under sill.....	1.00 per Pair, postpaid
No. 3—For the porch rail.....	.50 per Pair, postpaid



## SaVo Boxes

Keep Plants Healthy the Year Round.

The most efficient durable and artistic plant box made.

Finished in Aluminum or Green.

	Height.	Width.	Length.	Each.	Postpaid.
Model A .....	8 ins.	9½ ins.	23 ins.	\$3.00	\$3.15
Model B .....	8 ins.	9½ ins.	29 ins.	4.00	4.15
Model C .....	8 ins.	9½ ins.	35 ins.	4.50	4.65
Model D .....	8 ins.	9½ ins.	41 ins.	5.00	5.25

## The Perfecto Flower Box

The Perfecto Flower Box has many indorsements for growing all kinds of beautiful flowers and ferns. The reason for this is the air-circulation provided for in the construction beneath the plants, which prevents souring from excess watering.

The PERFECTO is an ornament in good taste for any home and is constructed with this purpose in view. The finish is enamel, in either of three colors—GREEN, OLD IVORY or RED. Each box shipped or delivered is packed in an individual carton to insure preservation of finish and safe delivery to purchaser.

With stand it makes an ornament for any home.

### PRICES POSTPAID

Length.	Depth.	Width.	Box Alone.	Complete With Stand.
20 inches	6 inches	7 inches	\$1.00	\$3.50
26 inches	6 inches	7 inches	1.50	4.25
32 inches	6 inches	7 inches	2.00	5.00
38 inches	6 inches	7 inches	2.50	5.75
44 inches	6 inches	7 inches	3.00	6.50

## Japanese Hull-less Pop Corn

There is hardly a home in the country where during winter popping of corn is not a pastime. Not all Pop Corn is the right kind for popping. What we offer can be relied upon for planting or popping.

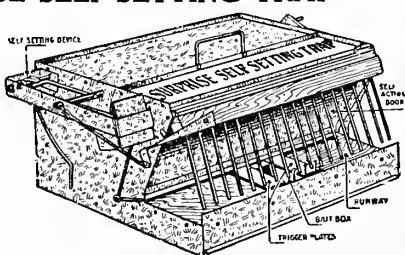


Lb. 15c. Special price in quantity.

M.-S. All Wire Corn Popper—25c. Parcel post weight, 1 lb.

## THE SURPRISE SELF-SETTING TRAP

The most wonderful trap ever invented for trapping rats, and ground squirrels. Its action is so quick that the eye can hardly see it operate, sometimes trapping a dozen to fifteen rats at one setting. The trap must be seen in action to be fully appreciated. The lightest touch on either of the trigger plates sweeps the rake over the runway, throwing the animal into the trap and instantly the trap resets itself, repeating this action ten to twelve times until run down. Price, \$6.00, postpaid.



## THE CYCLONE SEED SOWER

Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we recommend the CYCLONE.

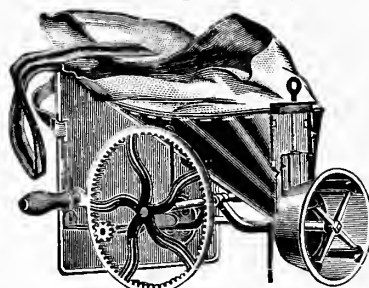


Fig. 1.



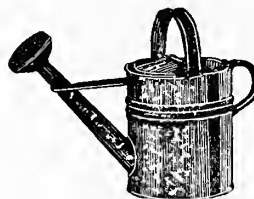
Price, \$2.25, postpaid.

## CAHOON SEED SOWER

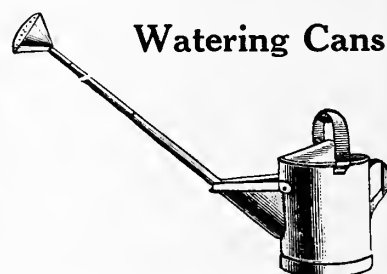
STEEL HOPPER AND GATE BRASS DISCHARGER. Fig. 1.

Price, \$5.00, Postpaid.

HORN SEED SOWER. Price, \$1.00, Postpaid.



## Watering Cans



—Made of heavy galvanized iron, removable rose. 4-qt. 65c; 6-qt. 75c; 8-qt. 90c; 10-qt. \$1.00; 12-qt. \$1.25; 16-qt. \$1.50.

HEAVY TIN, JAPANESE RED WATERING POTS (English Pattern)

—3-qt. \$4.75; 4-qt. \$6.00; 6-qt. \$6.50; 8-qt. \$7.00; 10-qt. \$7.50.

LONG SPOUT WATERING POT (Round Pattern)—Equipped with two copper faced roses—one fine, one coarse, with each can. Can shaped round, made of heavy galvanized iron. Fig. 2.

4-quart... \$4.50 10-quart... \$5.60  
6-quart... 4.80 12-quart... 6.10  
8-quart... 5.25 16-quart... 6.50

### OVAL (FRENCH PATTERN) WATERING POT

6-quart... \$5.60 10-quart... \$6.50  
8-quart... 6.00 12-quart... 7.00

## Baskets, Chains, Back Bands, Etc.

Picking Baskets—½ bushel size with handles. \$5.25 dozen; without handles, \$4.85 dozen.

White Oak Baskets—Side handled. 1-bu. size, \$1.40; 2-bu. size, \$2.00.

Pea Bags—Used by Anne Arundel farmers for bringing peas and beans to market. 20c each. For quantities write for price.

Strawberry Boxes—1-qt. size, 10c doz.; 75c per 100. Prices per 1,000 furnished on application.

Trace Chains—7 ft., straight link, hook or ring. Price, \$1.75 pair. No. 2, cheaper grade, \$1.50.

Cow Chains—Tieing out. No. 1 20 ft. 60c; No. 00 heavier grade 20 ft. 75c; No. 00 30 ft. \$1.00; Stable ties, 4½ ft., price 50c.

Back Bands—Cotton duck with snaps 42 in. 75c each.

## Little Giant Mole Trap

Fig. 21

The simplest, safest and surest mole trap ever invented. Self-setting. Price, \$1.00, postpaid.

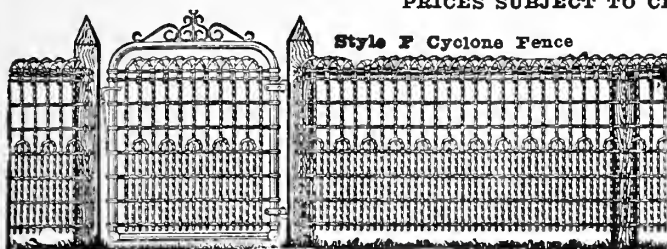
MOLO—A preparation that will clear your lawn of moles and field mice in a few nights. Pkt. 25c. Not available.

MOLOGEN Mole Killer—A product for effectively eliminating moles from lawns. Price, ½ lb. 50c, postpaid 57c; 5 lbs. \$4.00; postpaid \$4.12.

CYANOGAS for Moles, See Page 83.

## NORWOOD AND AMERICAN SANITARY WIRE FENCING

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



Style F Cyclone Fence

No. 600 is the most popular sanitary wire fence. Pickets are all Nos. 9 and 12 heavily galvanized wire. The line wires are spaced 1½ inches apart at bottom, 3 inches at top, making fence absolutely chicken tight. Regular heights are 36 inches, 42 inches and 48 inches.

Price per lineal foot, No. 600, 36 in., 16c; 42 in., 18c; 48 in., 22c. Full 10 or 20 Rod Rolls less 10 per cent.

Three-foot Ornamental Walk Gates to match, \$4.25 each. 3½ ft. 5 per cent and 4 ft. opening 10 per cent higher.



No. 2 Tree Guard—Made of No. 7 heavily galvanized wire woven together with No. 12 galvanized cable wire, 12 inches diameter 72 inches high. Price, \$1.50.

### Drive Gates

Single Ornamental Drive Gates 8, 10 and 12 ft., height 36, 42 or 48 in. Prices, \$8.50, \$9.50 and \$11.50.

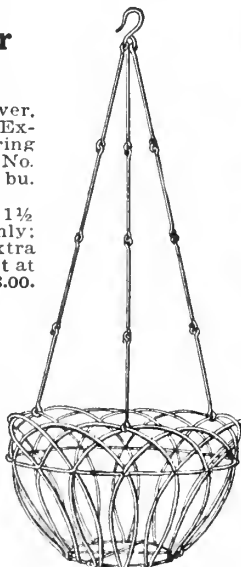
Double Ornamental Drive Gates, 8, 10 and 12 ft., height 36, 42 or 48 in. Prices, \$9.50, \$11.50 and \$12.50.



### Storage or Ash Can

Galvanized, deep cover, rat and damp roof. Excellent for storing grain or dry mash. No. 67, capacity, 2½ bu. Price, \$2.50.

No. 161, capacity 1½ bu., for ashes only; constructed extra strong reinforcement at top and bottom. \$3.00.



Wire Hanging Basket

### Wire Hanging Baskets

Help make the city beautiful by installing wire hanging baskets and window shelves filled with beautiful flowers. Made of good heavy wire. Painted green. See illustration.

Baskets, 8-in., 25c; 10-in., 35c; 12-in., 45c. Parcel Post weight, 2 lbs. each.

## American



## Fence

KEEN KUTTER POST HOLE DIGGER—See page 64.

### "AMERICAN" POULTRY AND STOCK FENCE

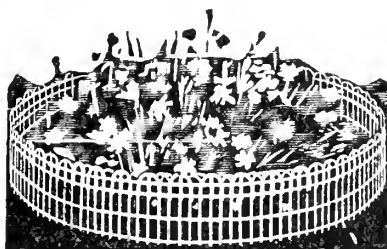
"American" Poultry and Rabbit Fence—For poultry yards, gardens, orchards and yards; it is a great favorite. 165 running feet, 48-in., \$7.25; 58-in., \$8.00.

#### Banner Poultry Fence:

36-in. 165 ft.	\$5.25
48-in. 165 ft.	6.25
60-in. 165 ft.	7.25
72-in. 165 ft.	8.25

#### Field Fence:

726 x 6. 165 feet.	\$6.00
726 x 12. 165 feet.	4.50
1047 x 6. 165 feet.	9.00
1047 x 12. 165 feet.	6.50



### Perfection Flower-Bed Guard

Fits any shape or size of flower-bed. No posts required. Cut to any length. Bottom of pickets left straight to be inserted in the ground. Made in three heights. Price per lineal foot: 16-in., 9c; 22 in., 11c; 28 in., 12c.



FIG. 1

### Wire Trellis Fig. 2

Just the thing for climbing plants and flowers. Cut to any length; fits any porch. The most inexpensive practical trellis made. Furnished in three widths. Price per lineal foot: 18 in., 7c; 24 in., 9c; 30 in., 11c.

### Norwood Rubbish Consumers

Burns waste paper, rubbish and all combustible materials without scattering and without danger from fire.

No. 2—Height 22 in.; diameter 15 in.; weight 7 lbs. Price, \$1.75.

No. 3—Height 20 in.; diameter 18 in.; weight 9 lbs. Price, \$2.25.

No. 4—Height 31 in.; diameter 21 in.; weight 12 lbs. Price, \$3.50.

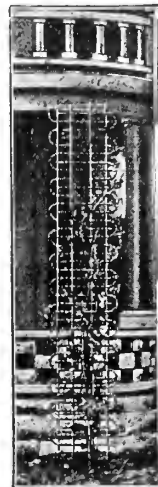


FIG. 2



Illustration of 2-inch Diamond Mesh Poultry Wire

### Diamond Mesh Poultry Netting

Put up in rolls of 150 running feet. Galvanized after weaving.

2 in. No. 20. 1 in. No. 20.

	Wire.	Wire.
1 foot	\$1.25	\$2.75
18 inch	1.75	4.00
24 inch	2.25	5.00
36 inch	3.00	7.00
48 inch	4.00	9.25
60 inch	5.00	11.25
72 inch	6.00	13.75

2 inch less than roll lots 1½ square ft.; 1 inch, 2½c. Price subject to change without notice.

Poultry Wire Staples, 10c per lb.

Prices on all kinds of wire and steel goods subject to change without notice.

### Galvanized Steel Fence Posts

CHEAPER THAN WOOD AND MORE DURABLE—Galvanized Inside and Out

Line Post	Length—Feet.	Approx. Wgt.—Lbs.	Price.
Line Post	5	7.4	.67
Line Post	6	8.4	\$ .70
Line Post	7	10.	.80
Line Post	8	11.4	.95
10 End Post	7	51.	4.00
10 End Post	8	59.	5.00
10 Corner Post	7	75.	6.50
10 Corner Post	8	86.	7.00
Ball Tops for Line Posts			.30
Ball Tops for End and Corner Posts			.50
Driving Caps for Line Posts			.55



American Galvanized Steel Fence Post.

# Amazing New Line of BUCKEYE INCUBATORS

## The World's Best Incubators

We Carry a Full Line of  
Incubator and Brooder Repair Parts.

The new line of Buckeye Incubators affords a range of capacity from 75 to 576 eggs. This meets the demand expressed to-day by users of domestic incubators.

**Cypress Cabinets**—All of the machines are constructed of cypress—the best material ever found for incubators. It will not warp. It will not crack nor pull apart. It will not retain the odors of hatches.

**Beautiful Finish.** Finished in natural grain with the most

durable of varnishes, Buckeye Incubators have the appearance of beautiful furniture.

**Heavy Insulation**—The four larger models have double walls with heavy insulating material between, assuring retention of heat with the utmost fuel economy. These models also have darkening doors to provide the dark egg chamber favorable to efficient incubation.

**Patented Thermostat**—The Buckeye Patented All-Metal Thermostat insures absolute regulation of temperature. It eliminates the possibility of break-down which is likely to happen with wafer-type thermostats; for wafers may become dead through the evaporation of the liquid in them. This may occur in the midst of a hatch and ruin the whole setting of eggs. There is no such hazard with the Buckeye All-Metal Thermostat. It is absolutely reliable. No other thermostat can give Buckeye results, because the Buckeye Thermostat is patented.

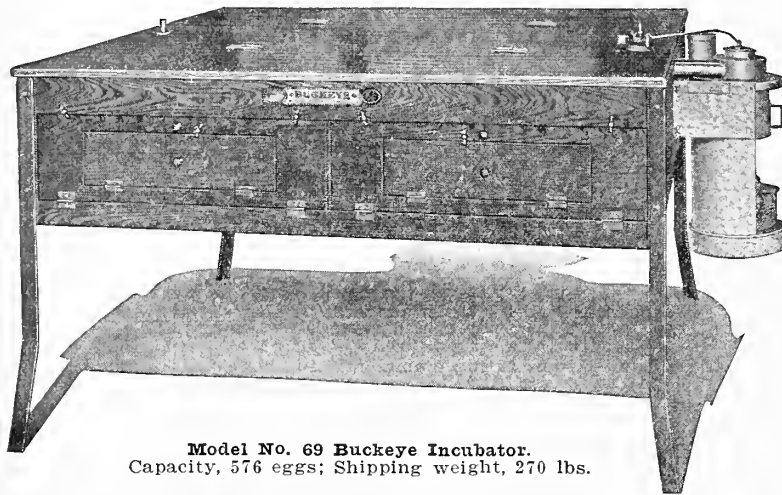
**Improved Heater**—The Buckeye heating tank is built of heavy copper. An air vent is placed in the end of the tank farthest from the boiler. This eliminates air bubbles and insures perfect circulation of the water. In the new Buckeye Incubator there can be no trouble and loss from air pockets in the heater.

**Underwriters' Label** on all models, except No. 65, as a warranty against fire hazard.

**Iron Legs** are painted to match the incubator. The flare at bottom gives extreme rigidity and adds to the graceful appearance of the incubator.

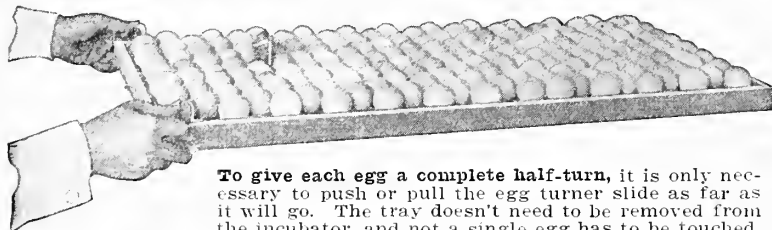
### FINISHED IN FIVE SIZES

No. 65—	75 Egg Capacity.....	\$18.50
No. 66—	143 Egg Capacity.....	39.50
No. 67—	286 Egg Capacity.....	57.75
No. 68—	416 Egg Capacity.....	76.50
No. 69—	576 Egg Capacity.....	97.50



Model No. 69 Buckeye Incubator.  
Capacity, 576 eggs; Shipping weight, 270 lbs.

## New Automatic Egg Turners Are Standard Equipment



To give each egg a complete half-turn, it is only necessary to push or pull the egg turner slide as far as it will go. The tray doesn't need to be removed from the incubator, and not a single egg has to be touched.

All Buckeye Incubators, except No. 65, are now equipped with Buckeye Automatic Egg Turners. Only a moment is required to turn all the eggs. This saves time and work. It prevents chilling, adding, and breaking the eggs. The tray is strongly and simply constructed, and there's nothing to get out of order. **Egg Tester and Thermometer** furnished FREE with each Buckeye Incubator. Both of these articles are designed for the utmost convenience of operators.

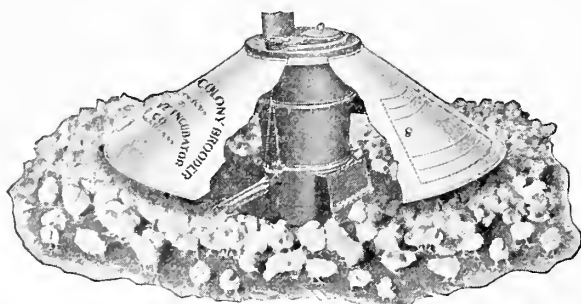
## Guarantee

Every Buckeye Incubator is guaranteed to hatch more chicks and stronger chicks than any incubator of any other brand. The perfect construction of all mechanical parts is also guaranteed and any Buckeye Incubator or part thereof that does not fulfill our guarantee in every particular will be replaced without question any time within 40 days.

Signed: THE BUCKEYE INCUBATOR COMPANY.

## New Coal-Burning Brooder

Yes, a brand-new Buckeye Coal-Burning Brooder now offered to poultry raisers for the first time. A Coal-Burning Brooder with 1,200 chick capacity—a big 60-inch hover—a coal capacity



of 70 pounds. It's a brooder that gives an abundance of heat no matter how cold the weather may be. It's a Brooder that will hold the fire all night. It's a Brooder you don't have to worry about—a brooder so simple, dependable and automatic in its operation that it requires only the minimum of attention. Considering how it is built and what it does, combined with its amazing low price, it is the greatest brooder value in the world today.

And there are three smaller sizes of Improved Buckeye Coal-Burning Brooders. All of them have all the features of the large size Buckeye. All of them are equal to it in chick saving ability. All of them will pay for themselves by the EXTRA chicks they save.

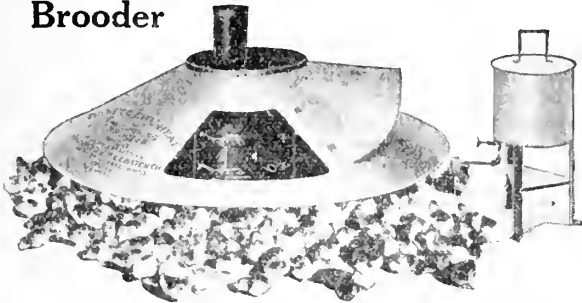
### The Greatest Value Ever Offered in Coal-Burning Brooders.

	No. 117	No. 118	No. 119	No. 120
Chick capacity .....	350	500	1000	1200
Height of Stove ....	20"	20 1/2"	23 1/2"	28 1/4"
Diameter of Base ....	11"	12 13/16"	13 1/2"	13 1/2"
Diameter of Grate ..	8 1/4"	9 3/16"	10 9/16"	10 9/16"
Diameter of Canopy ..	42"	52"	56"	60"
Coal capacity .....	23 1/2 lbs.	36 lbs.	58 lbs.	75 lbs.
Smoke Pipe .....	4"	5"	5"	5"
Shipping weight .....	75 lbs.	95 lbs.	130 lbs.	154 lbs.
Price .....	\$15.00	\$17.50	\$22.50	\$26.50



# BUCKEYE COLONY BROODERS OIL BURNING AND ELECTRIC

## Buckeye "Rite-Heat" Oil-Burning Brooder



### WICKLESS AUTOMATIC WAFER CONTROL

Newly designed and perfected, large capacity, oil-burning brooders. The improved stove has two baffle plates, greatly increasing heating efficiency. The newly designed burner has an exclusive new flame spreader that throws the flame down and out to the sides of the stove. And the perfected "Rite-Heat" has a special double pre-heating chamber, thoroughly heating the air before it reaches the burner—an improvement that enables the flame to burn continuously even at a very low rate. The flame won't flare up. It won't go out. The new smoke pipe cap and a back draught check damper prevent back draughts from reaching the flame.

The new "Rite-Heat" burner bowl has an overflow pipe for any excess oil that may be supplied to the burner.

The improved thermostatically controlled Heat Regulator insures ideal temperature under the hover. It has a new sight feed showing at a glance how much oil is being delivered to the burner. The Revolving Hover is a remarkable labor-saver and a marvelous heat deflector.

"Rite-Heat" saves chicks where other oil-burning brooders fail. Safe; dependable; durable; economical.

	No. 103	No. 104
Capacity .....	500	1200
Diameter of Canopy .....	52"	62"
Shipping Weight .....	108 lbs.	118 lbs.
4-Gallon Metal Oil Container.		
Prices .....	\$29.50	\$33.00

## Buckeye Blue Flame Colony Brooder

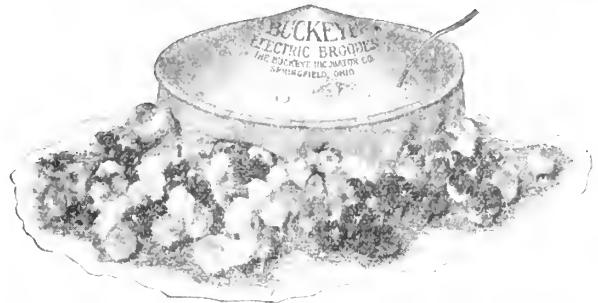


An ideal oil-burning brooder for heated or warmly constructed brooding houses. Has a powerful burner; a self-feeding oil container, holding one gallon of oil. Galvanized steel hover supported by cast-iron legs, and equipped with "Diafram" Heat Conveyor which distributes heat uniformly and provides perfect ventilation. No complicated levers, valves or thermostats. No "oil-leveling" mechanism to contend with. Simple, easy and economical to operate.

No. 27-A	No. 80	No. 81
200 Chicks	350 Chicks	500 Chicks
Diameter 34"	Diameter 42"	Diameter 52"
Shipping weight	Shipping weight	Shipping weight
40 lbs.	50 lbs.	60 lbs.
Price, \$14.50	Price, \$15.50	Price, \$16.50

Where a greater amount of heat is desired, we can furnish the 350-chick and 500-chick brooders with giant burners under Model 29-A respectively. Price, No. 29-A.....\$18.50

## Buckeye "Electric" Colony Brooder



The Buckeye Electric Brooder gives a maximum of brooding efficiency without the disadvantages common to other brooders of this type. Generates a remarkable amount of heat with comparatively small current consumption. The heating coils are a special grade resistance wire. Designed for 100 to 125 volts A. C. It has the exclusive Buckeye Double "Diafram" Heat Diffuser; assures a more uniform distribution of heat under the hover. The control switch is thermostatically operated. Contact points won't stick. They won't burn out. Buckeye assures perfect ventilation that prevents concentration of moisture under the hover. That's important.

Ideal for poultry raisers who want to brood comparatively small flocks of chicks in warm brooder houses.

	No. 90	No. 91	No. 92
Chick Capacity.....	50	160	200
Diameter of Canopy.....	26"	36"	46"
Shipping Weight.....	19 lbs.	49 lbs.	75 lbs.
Prices.....	\$14.50	\$19.75	\$24.75

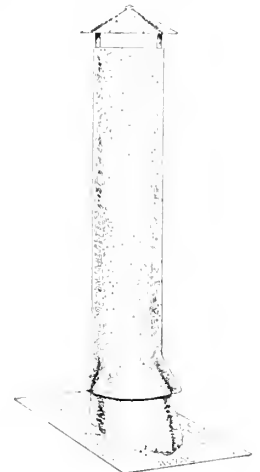
OAKES ELECTRIC HOVER—See page 80.

## Adjustable Roof Flange

### FOR COAL BURNING BROODER STOVES

The new Adjustable Roof Flange is adjustable to care for any pitch roof; is furnished complete with stack and rain cap as illustrated. Made for two sizes of pipe—4" and 5", which should be specified in ordering. It is rust proof and rain proof, being made from heavy galvanized iron. Packed one to carton. Shipping weight, 11 lbs.

For 4" Pipe—Wgt. 7 lbs.....	\$1.95
For 5" Pipe—Wgt. 7 lbs.....	1.95



## The Putnam Brooder

This is used to heat a home-made brooder, which will take the best of care of from 30 to 60 chicks. Instructions for making brooder packed with every heater.

The Putnam Brooder Heater is made of brass and galvanized iron. It is practically indestructible. Price of Putnam Brooder Heater Galvanized. \$4.75 postpaid. Illustrated circular on request.



**\$4.75 Post Paid**  
**Burns 10 days without attention**

WE CARRY A FULL LINE OF BROODER REPAIRS  
See Following Page.

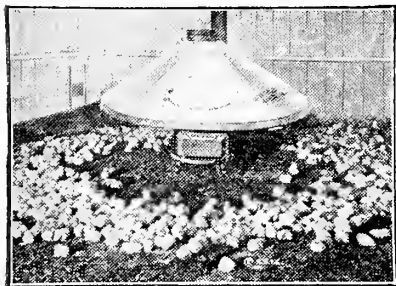
## Guarantee

BUCKEYE Brooders are guaranteed to be exactly as represented and to do everything we claim for them. They are guaranteed to do anything that any other Brooder will do—and do it better. That's a pretty broad guarantee, but we mean every word of it. BUCKEYE Brooders are the greatest brooding devices ever invented and we are ready to prove it by permitting you to WRITE YOUR OWN MONEY-BACK GUARANTEE. We will permit you to try any BUCKEYE BROODER for 30 days under any kind of guarantee you care to write, and return your money without argument if you are not entirely satisfied.

Signed: THE BUCKEYE INCUBATOR COMPANY.

# NEWTOWN COLONY BROODERS

Will Raise Every Raisable Chick—Ask Any Owner



"A Newtown Mother"

The Newtown Coal Burning Brooder has the reputation of being the most efficient brooder made. It needs no introduction to poultrymen. It was the first coal-burning, self-feeding, self-regulating colony brooder put on the market, having been longer in use than any other of its type. It is giving efficient service in every State in the Union and eleven foreign countries, and represents the modern up-to-date brooder in the highest form of development. It is durable, easy to operate, safe, economical and labor saving.

**Construction**—Made of best grade heavy heat-retaining castings.

**Easy to Operate**—Nothing complicated—full instructions furnished with each brooder. Automatic regulator controls the drafts and no change in weather is too sudden for its adjustment.

**Safe**—Hot coals cannot roll out of the ash pit door into litter. Has a double bottom, with dead air space, and a heavy metal casting which prevents chicks from scratching litter against the hot firebowl.

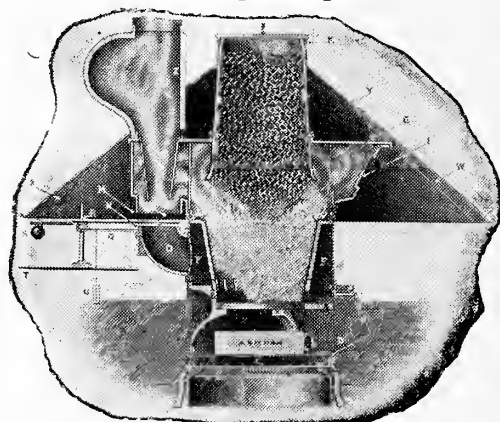
**Economical**—Built to last a lifetime. Firepot and combustion chamber designed to burn all gases, greatly reducing fuel cost.

**Labor Saving**—Requires little attention. Magazine holds sufficient fuel to last 24 to 36 hours. Turning one small adjusting nut enables one to secure any desired temperature. Deflector is not disturbed in coaling. Hinged deflector lid gives easy access to ash pit door. Smoke box ell prevents soot or other foreign matter falling down smoke pipe and interfering with draft regulation.

## BIG EXCLUSIVE FEATURES

Note the cross section view of the Newtown Coal Brooder opposite. There is no brooder on the market which can be compared in any way to this brooder. When you think of these features you can see how Newtown is built to brood chicks under every emergency. It cares for all your chicks regardless of weather conditions. It burns a good grade of soft coal satisfactorily, as well as hard coal. It holds the fire and does not require constant attention. You don't have to get up at night to see if your chicks have enough heat. They're always safe and warm with Newtown.

Model.	Wt. Crated.	Chick Cap.	Coal Cap.	Dia. of Hover.	Dia. of Grate.	Price.
No. 11	220 lbs.	Up to 500	43 lbs.	50 inches	11 inches	32.50
No. 12	306 lbs.	Up to 1000	62 lbs.	56 inches	15 inches	40.00



"A" to "Z" of the Newtown Brooder

## "A" to "Z" of the NEWTOWN

A—Grate (Ring Grate and Slide Center)	F—Air Space Between Fire-bowl and Metal Jacket	K—Magazine Cap	S—Counter-Balance Weight
B—Grate Rest	G—Opening Between Combustion Chamber and Radiator	L—Smoke Box Ell	T—Thermostat
C—Air Space Between Double Bottoms	H—Radiator	M—Check Draft Opening	U—Thermometer
D—Sloping Surface to Ash Pit Door	I—Observation Door	N—Main Draft Opening	V—Sand Ring
E—Ash Pit Door	J—Coal Magazine	O—Lower Draft Elbow	W—Deflector Lid
		P—Damper Discs	X—Small Door in Canopy
		Q—Regulator Support	Y—Canopy
		R—Adjusting Nut	Z—Smoke Box Clean-Out

In ordering Repair Parts always give NUMBER OF BROODER STOVE AND NAME OF PART WANTED.

## Buckeye Incubator Repairs

	POSTPAID
Regulating Bracket .....	\$ .35
Regulating Lever (with Damper) .....	1.00
Filler Caps (all Incubators) .....	.35
Damper Disc only .....	.25
Boiler Jacket (upper half) .....	.50
Boiler Jacket (lower half) .....	1.00
Drain Cap and Collar .....	.25
Lamp Chimney .....	.50
Lamp Burners, Single .....	.75
Lamp Burners, Double .....	1.00
Lamp Bowls (all styles) .....	1.00
Underwriters Lamp Support, without Lamp .....	3.50
Metal Thermostat .....	2.50
Connecting Rod and Nut .....	.50
Hot Water Tanks .....	Write for Prices

## Buckeye Brooder Repairs

Always Order by Number on Old Casting

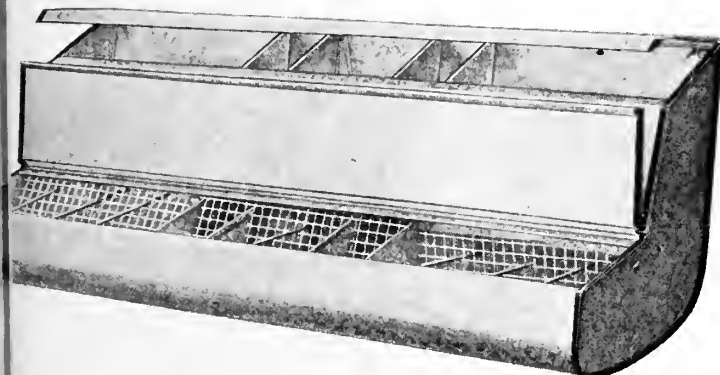
	No. 117	No. 118	No. 119
Ash Pit Door .....	\$ .75	\$1.00	\$1.10
Lower Regulator Arm .....	.75	1.00	1.00
Upper Regulator Arm .....	1.20	1.50	1.50
Plain Half Grate .....	1.20	1.50	1.75
Shaker Half Grate .....	1.20	1.50	1.75
Grate Lock .....	.35	.50	.50
Shaker Handle .....	.50	.50	.50
Stove Lid .....	.60	.60	.60
Check Draft Cover .....	.40	.50	.50
Check Draft Protector .....	.35	.50	.50
Canopy Ring .....	1.75	2.00	2.25
Baffle Plate .....	.75	1.00	1.25
Lower Check Draft Lid .....	.15	.15	.15
Wafer Thermostat, each .....	.50	.50	.50
Canopy only .....	5.50	7.50	9.00

## Modern Mash Hoppers and Feeders

### New Royal Mash Hoppers

The new improved line of Royal Dry Mash Hoppers is made from extra heavy galvanized prime sheets, all parts accurately stamped with dies and all seams double seamed. The hopper being much larger at the bottom than at the top prevents clogging of feed. Holes are punched in the back of the hoppers to permit hanging on wall in a convenient place. The fowls cannot roost on hopper. When closed it is water proof and rat proof. Has adjustable screen and wire agitators; neatly trimmed with green stripe. Made in four sizes. The No. 84 is divided into five compartments, to allow for grit, charcoal and shell.

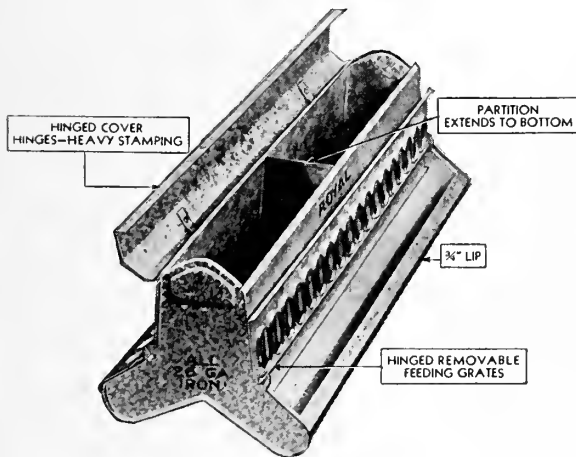
	Width.	Capacity.	Price.	Postpaid.
No. 82.....	18 inches	22 quarts	\$2.25	\$2.39
No. 83.....	24 inches	32 quarts	2.50	2.66
No. 84.....	36 inches	45 quarts	4.50	4.79



### Royal Chick Hoppers

NEW PATTERN

Complete. Waterproof. Modern.



No. 363

The New Royal Hoppers made from 26-gauge galvanized iron are the heaviest on the market and include features as illustrated on the cut, all of which are found on no other hopper. The capacity is much larger and the hopper much better made than any other hopper made. Full length and shipped completely assembled. Price, \$1.95. Postpaid, \$2.15.

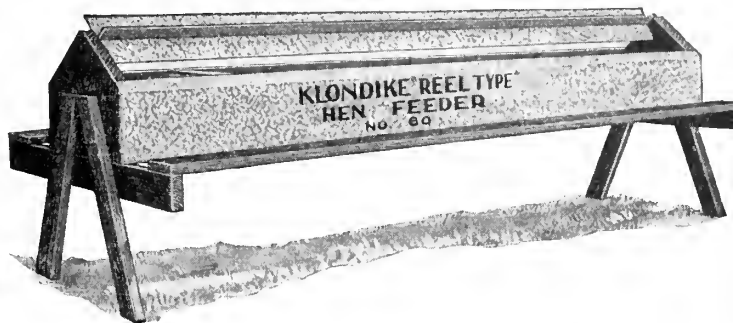
## STOP CANNIBALISM — Use F & E Chick Pick Remedy

A common sense treatment for controlling and overcoming the vicious habit of Toe, Wing and Tail picking of chicks.

Price, 60c per can, postpaid 67c.

### Reel Type Mash Hopper

A WONDERFUL FEEDER AT A REMARKABLE PRICE

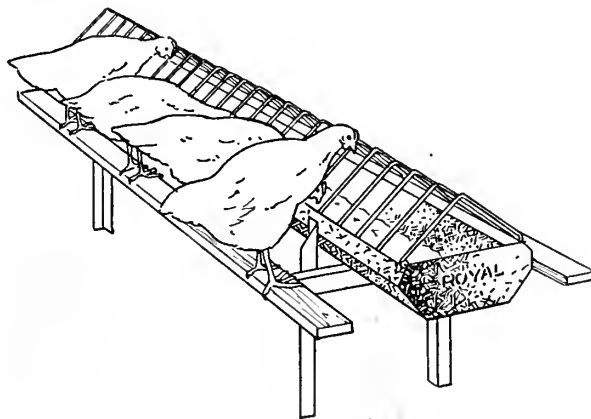


Built of heavy galvanized iron; five inches deep; twelve inches wide and five feet long; provides ten feet of feeding space. Equipped with revolving reel that prevents hens or chicks roosting on top or getting into the feed. Perch stands 14 inches above the floor and prevents hen scratching dirty litter into the mash.

No. 60—Length five feet.....Each \$4.50

Shipping weight, 25 lbs. Not mailable.

### Mash or Green Feed Trough With Stand

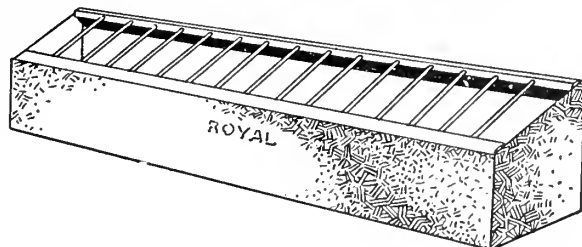


Made from heavy galvanized iron and furnished with heavy wire hinged top trough. Easily removed from stand for filling or cleaning. Stand made from heavy galvanized angle iron with wood perches. Three sizes for grown fowls.

No. 48—48 inch. Weight 17 lbs.....Price \$3.75—Not Mailable

No. 60—60 inch. Weight 21 lbs.....Price \$4.25—Not Mailable

### Large Dry Mash Troughs



These troughs are made from heavy galvanized iron with wire stationery frame over top. Can be set on stand or hung on wall. Width 7 inches; depth in front, 5 inches; depth in rear, 7 inches.

No. 79—48 inch. Weight 12 lbs. Price, \$1.60. Not mailable.

## BABY CHICK SUPPLIES

### Royal Wire Top Chick Trough



Made from 26 gauge galvanized iron, stamped from one piece of metal with ends beaded for strength, no spot welding. Ends cannot get loose or come off trough. Extra wide and made with wide lip on each side to prevent feed waste.

This carries a hinged wire grill which can be opened for filling or cleaning.

No. 204—Length, 24". Weight 3 lbs. Price 50c, postpaid 60c.

#### ROYAL 6-QUART

##### GALVANIZED FOUNTAIN

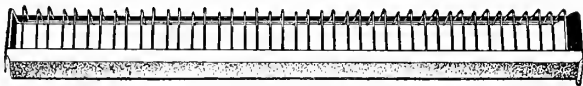
**Extra Heavy 20 Gauge—One-Piece Pan**  
This fountain is made from extra heavy gauge iron and provided with an exceptionally heavy bail. The bottom pan is pressed from one piece of metal and is made from 20 gauge galvanized iron. Turns upside down to fill. Pan is held in place by spring tension furnished by bail and forced in place.

Capacity 6 quarts. Price, \$1.15; postpaid \$1.25.



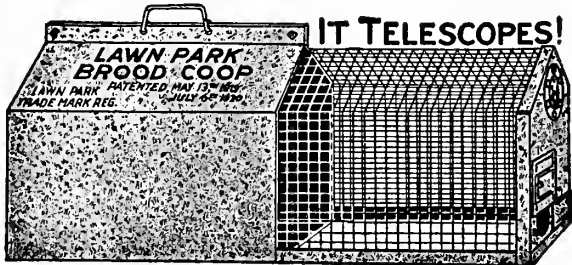
### Adjustable Feed Trough

#### FOR BABY CHICKS OR GROWING CHICKS



Has two adjustable spot-welded wire frames that slide, providing a minimum opening of 1 inch and a maximum opening of 2 inches so that the trough can be used for feeding either chicks, growing stock or even grown fowls; is 44 inches long, 6½ inches wide, 3 inches deep, and has a full 1-inch lip on each side of the Trough.

No. 44—Length 44". Shipping weight, 8 lbs. Price \$1.75; postpaid, \$1.90.



### IT TELESCOPES!

**PROTECTS THE CHICKS FROM HAWKS, RATS, WEASELS, VERMIN, COLD, STORM, ETC. SAVES TIME, WORK AND WORRY.**

The "Lawn Park" is large and roomy, being 18 inches wide, 19½ inches high, and 48 inches long, with park extended. Price, \$4.00 each. Cannot be sent by parcel post.

### Baby Chick Boxes



**BABY CHICK SHIPPING BOX—**  
Made of corrugated paper, extensively used, will carry chicks any distance with perfect safety. Are shipped knocked down and take up small amount of space.

	Size	Each	Postpaid	Doz.	Postpaid
25 chicks	9x11x5½	12c	19c	\$1.25	\$1.37
50 chicks	18x11x5½	15c	23c	1.50	1.63
100 chicks	18x22x5½	20c	29c	2.00	2.14



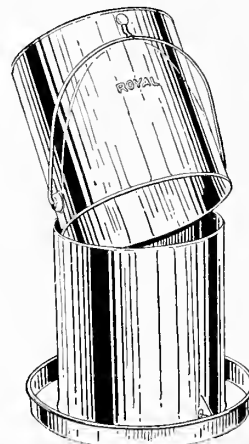
**ROYAL CHICK FEED TROUGHS**—Extra heavy slide top made from best quality prime galvanized sheets accurately formed with dies; smooth turned edges on all holes. Deep enough to hold sufficient feed for growing chicks under brooders. Strictly a quality trough. Made in 3 sizes.

No. 212—Length 12 ins.; No. of holes, 16. 25c; postpaid 35c.  
No. 218—Length 18 ins.; No. of holes, 26. 40c; postpaid 45c.  
No. 224—Length 24 ins.; No. of holes, 34. 50c; postpaid 55c.

### No. 0 Royal Jar Fountains

This Fountain will fit any Mason Jar, and is intended for feed and water. 15c each; 2 for 25c; \$1.25 dozen, postpaid.

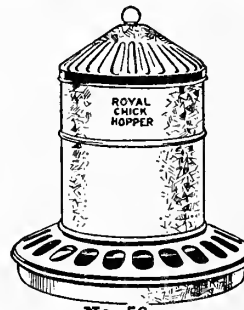
**No. 00 ROYAL JAR FOUNTAIN**—Same as above, but made of charcoal tin, to be used for feeding sour or buttermilk. 25c each, \$2.00 doz., postpaid.



### Royal Charcoal Tin Large Buttermilk Fountains

These fountains are made from 135 lb. charcoal tin and have two large openings, one on each side, with a piece of spring steel attached to two pieces of metal in the inside; in order to keep the milk from running out when the fountain is being filled, when the outer can is slipped down over the inner one, the pressure on these springs opens both holes and permits the feeding of all kinds of buttermilk. No reversing. Easily cleaned and filled.

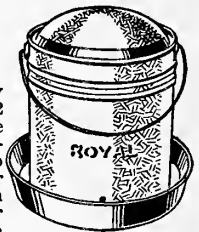
No. 30—Size 1 Gal. Price, \$1.25; postpaid, \$1.35.



#### ROYAL ALL-GALVANIZED FOUNTAIN

Made from heavy galvanized iron in 2 pieces. Top made with bail for carrying. Base pulls off to fill. Pressure of air and grooves in pan hold weight of water and fountain may be carried by handle without fear of spilling.

No. 30—1 gal. Price 50c; postpaid 60c.



No. 56

**No. 56—ROUND DRY MASH FEEDER.** Capacity 1 peck. Ample feeding space. Price, \$1.00; postpaid, \$1.10.



Fig. 5

Fig. 6

**GAPE WORM EXTRACTOR**—Price, 25c, postpaid.  
**PHILADELPHIA POULTRY MARKER**—Large and small. Price, 25c, postpaid. Fig. 5

**POULTRY MARKER**—In shape of pliers. 25c, postpaid. Fig. 6.

**MOES POULTRY PUNCH**—Fig. 8. The best punch made, easy to handle and will not bruise the web of the little chicks foot, 50c, postpaid.

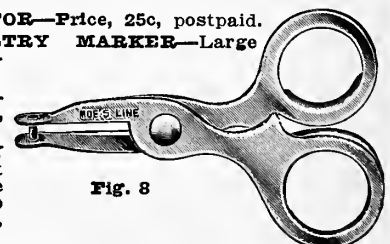


Fig. 8

**PETTEY'S VEST POCKET POULTRY PUNCH**—For convenience it has no equal. 25c postpaid.

**PETTEY'S LEVER PUNCH**—Closes hole to prevent bleeding. 50c postpaid.



# POULTRY AND PIGEON FEEDERS AND FOUNTAINS

## Royal Thermic Fountains

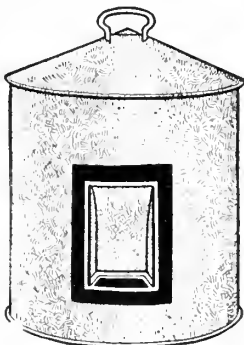
Keeps water warm in winter. Keeps water cool in summer.

The fountain that has won the highest favor among the leading poultry men everywhere. It is indispensable on the poultry farm. Constructed similar to a fireless cooker. Has double walls packed with insulating materials to keep the water warm in winter and cool in summer. Wide inserted drinking pocket makes this fountain absolutely sanitary. Made of the finest materials and best workmanship throughout.

For cold weather fill with warm water in the morning.

This fountain will keep the water in good drinkable condition through the day. Made in three sizes.

2 gal. size \$3.00 each, postpaid \$3.25.  
3 gal. size \$3.50 each, postpaid \$3.80.  
5 gal. size \$4.50 each, postpaid \$4.85.



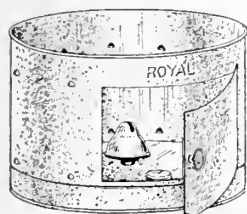
## Royal Fountain Heaters

Made from extra heavy galvanized iron with oil fount built-in. Furnished with "no-chimney" burner which insures perfect combustion. Burns for a number of days with one filling of oil. Can be used with all Royal Fountains up to eight gallon size.

No.	Diameter.	Weight.	Price.	Postpaid.
111	11 in.	6 lbs.	\$2.10	\$2.22
114	14 in.	8 lbs.	2.65	2.79

No. 111—Heater & 3 gal. fount with stand complete \$5.00 postpaid  
No. 114—Heater & 5 gal. fount with stand complete \$6.00 postpaid

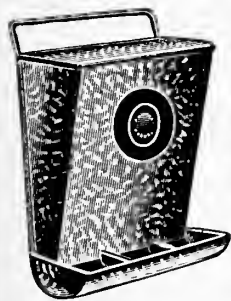
A Convenient Outfit in 3 Units.



## Grit and Shell Boxes

There is no more economical method of supplying grit, etc., than with these practical, inexpensive compartment boxes. Can also be used as feed hoppers for little chicks. Made of heavy galvanized iron in three sizes. The No. 45 for baby chicks has a square bottom; the other sizes have round bottoms.

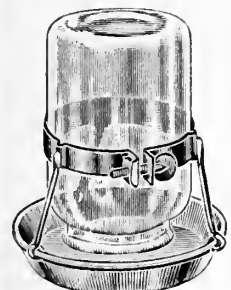
No.	No. of Compartments.	Weight.	Price.	Postpaid.
45	2	1 lb.	40c	47c
9	3	3 lbs.	85c	94c



## Felker's Handy Attachment

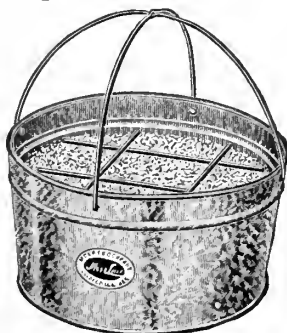
To Be Used With Any Make of Fruit Jar.

A perfect Feeder for sour milk, water, hard grain or grit. The container is made of aluminum, the only metal in which sour milk can be fed with safety. It is rust-proof and non-corroding. The Handy is adjustable, simple to operate and durable. Every one has some kind of a quart fruit jar—the Handy fits them all. 25c each, postpaid 30c.



## Overall Mash Hopper

All steel, galvanized. Cap. 6 qts. Price, 75c, postpaid 85c.



Overall Mash Hopper

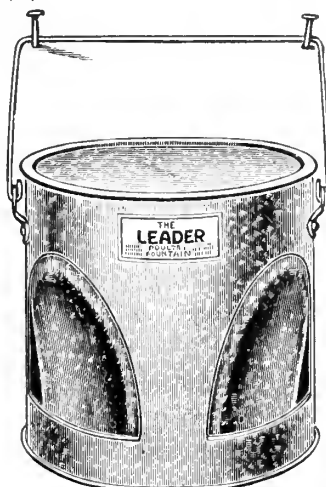
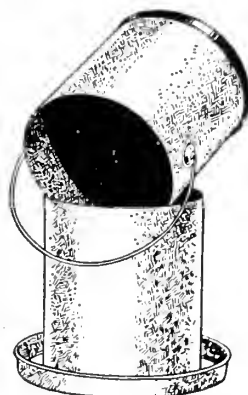
## Royal Fountains— 203, 205, 208

Made from heavy galvanized iron. double tank construction, of large capacity for grown fowls or chicks. Permits the fowls to drink all around fountain.

No. 203—3 gal. size. Price, \$1.50; postpaid, \$1.65.

No. 205—5 gal. size. Price, \$2.25; postpaid, \$2.45.

No. 208—8 gal. size. Price, \$3.00; postpaid, \$3.25.



## Leader Fountain

A new Sanitary Fountain, practical to use, easy to keep clean. A saving of from 30 to 40 per cent over any fountain of its size.

Price, 1½ gal. size, 85c each; postpaid, 95c.

The 3 gal. size has two drinking spaces, making it very convenient for large pen fowl. These founts hang on the wall with two nails, one at each angle of the bail.

Price, 3 gal. size \$1.50 each; postpaid, \$1.60.

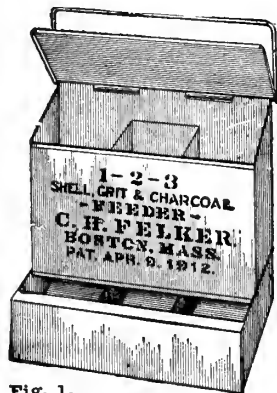


Fig. 1.

## FELKER'S "1-2-3" GRIT AND SHELL FEEDER—Fig. 1

For dry mash, scraps, shells, grit, charcoal or any poultry feed. When used for one kind of feed only, take out separator in one end; three kinds, say scraps, shell and grit, put separator in middle, and you have three separate feeders. Price, \$1.35; postpaid, \$1.45; small size, 75c; postpaid, 85c.



Fig. 3.

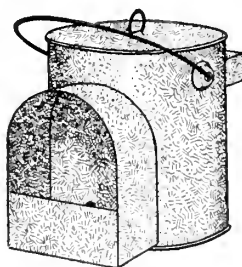


Fig. 4.

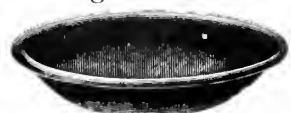
"FEERLESS" DRINKING FOUNTAIN keeps the water clean and pure. 5 qts. 90c, postpaid \$1.00; 10 qts. \$1.50, postpaid \$1.60. Fig. 3.

Feed Cups for Exhibition and Training Cages—Fig. 5. Large size, No. 1, 20c each; \$1.75 doz.; small size, No. 0, 15c each; \$1.50 dozen. Postage extra.



Fig. 5.

## Pigeon Nests



Clay Pigeon Nest—Fills a long-felt want for all squab breeders. Price, 25c each, \$2.50 dozen. Express only.

ROYAL TWO-PIECE CLEAN-OUT WALL FOUNTAIN—A big improvement over the old style Wall Fountain. Made in two pieces. Easy to clean, dead air space between cover and reservoir keeps water cool in summer and from freezing in moderate winter weather. Price, 4-qt. size, \$1.15, postpaid \$1.25; 8-qt. size, \$1.40, postpaid \$1.50. Fig. 4.

## Oakes Electric Fountain Heater



Keeps drinking water from freezing even in zero weather. Safe and easy to use. No danger of fire or explosion. Cost averages about a cent a day. Used with any type fountain, pan, crock or bucket. Set water vessel on heater and turn on current. That's all there is to it! No adjusting! No regulating! No watching! Pays for itself in winter eggs. Heater is 8 inches in diameter, 1½ inches high and made of heavy galvanized metal. Built for service. Money promptly refunded if unsatisfactory after ten days' trial. Price, \$1.75; postpaid, \$1.85.

## Oakes 3-Way Electric Fountain Heater

Operates on three temperatures—high, medium and low. \$3.00, postpaid.

## Little Putnam Stove for Poultry Fountains and Oat Sprouters

This little device will keep water from freezing in zero weather. It holds 6c worth of oil and burns a month without filling or trimming. Fool proof and fire safe. Used under any can, crock or fountain.



Postpaid  
\$1.95

Burns a Month Without Attention

Also used to heat a home-made oat sprouter. Plans for making sprouter packed with every stove.

## Leg Bands for Poultry and Pigeons

ALL POSTPAID.

**SPIRALET LEG BANDS** are made of celluloid in different colors; black, white, light blue, dark blue, red, green, yellow, brown, etc. Prices: Three Poultry Sizes to correspond with Nos. 2, 3 and 4 in above list: 12, 15c; 50, 50c; 100, 75c; 1,000, \$6.50. Pigeon and Day Old Chick Size; 12, 10c; 25, 20c; 50, 35c; 100, 50c.

**HANDETTES**—The large numbered colored celluloid flat poultry band, easy to put on, won't come off. Same colors and sizes as Spiralets. 25c doz.; \$2.00 100.

**"SMITH SEALED" BANDS**—If you want the best be sure you get "Smith Sealed" stock numbered bands. Every band is numbered different. Prices, dozen, 35c; 25, 60c; 50, \$1.00; 100, \$1.75; 250, \$4.00; 500, \$7.75; 1,000, \$15.00.

**SEALERS FOR SEALING S. S. BANDS**—Plain, \$1.05; lettered jaw, \$1.15.

**"DOUBLE-CLINCH" LEG BANDS**—Made in Double Clinch sizes as table. A strictly reliable open or removable band. Fastens with two clinches, leaving absolutely no exposed corners, ends or loops to come loose. Prices, dozen, 20c; 25, 30c; 50, 50c; 100, 75c; 250, \$1.75; 1,000, \$6.50.

**DOUBLE-CLINCH FOR PIGEONS AND BABY CHICKS** can also be used as wing bands; in two sizes. Price, dozen, 15c; 25, 25c; 100, 70c; 1,000, \$6.00.

## CHAMPION LEG BAND



Fig. 2

**ELITE DOUBLE NUMBER COLORED PIGEON BANDS**—For marking nest pairs. This band is the most visible, most practical and effective numbered leg band made; in colors that can be seen at a distance—in 14 colors, black numbers of white. Prices, 6 pairs, 30c; 12 pairs, 60c; 25 pairs, \$1.15; 50 pairs, \$2.25. Fig. 7.

## M.-S. Ribbon Band

This is an exceptional band; in fact the best celluloid band ever produced. It has a good large number that is indestructible so far as wear is concerned, while on the fowl. The best band ever made for use in trapnesting. Made in six sizes.

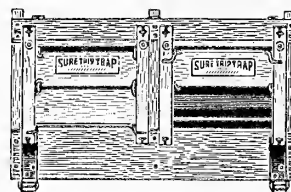
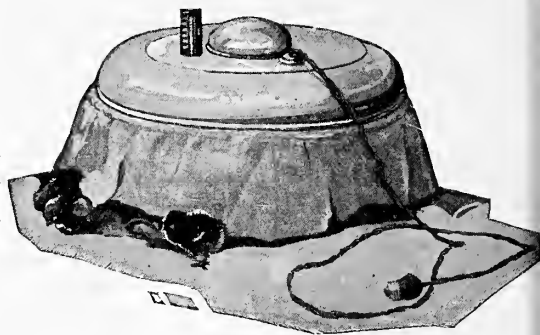


Per 100, postpaid  
No. 1—Chick size, Day Old.....\$1.25  
No. 2—Chick size, Two weeks old, or for pigeons ..... 1.25  
No. 3—Mediterranean Breeds ..... 1.50  
No. 4—American Breeds ..... 1.60  
No. 5—Asiatic Breeds ..... 1.75  
No. 6—Turkeys and Geese ..... 2.75  
In small lots, 25c per dozen.

## Oakes Electric Hover

This is the handiest and the easiest to operate of any brooder you ever saw. Capacity, 50 to 75 chicks.

Price, each,  
\$10.00  
Shipping wgt.  
13 lbs.



## Sure Trip Trap Nest Front

Simple mechanical device, ingeniously designed which accurately traps. Easily attached to an orange box or any home made nest. Very inexpensive.

No. 500—3 for \$1.00 postpaid; 100 for \$25.00 f. o. b. factory.

## Oakes Single Front for Trap Nests

(Patent Applied for)

You can use this front to make a trap nest out of any ordinary orange box, small dry-goods box, etc. Entirely practical but inexpensive.

Opening 9 x 10½ inches.  
No. E-59, each, 35c; postpaid, 45c.



## Earthenware Poultry Fountains

Black Glazed.

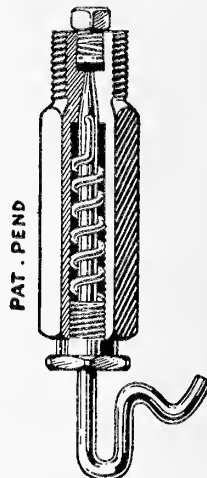
The poultry fountains supply a constant flow of pure water. Made in 2 pieces, can be easily kept clean and sanitary. The slot also permits the use of thick milk or other heavy liquids. In following sizes: 2 qt. size 50c; 4 qt. size 60c.

Not Mailable.

## The New Dry-Not Valve



Will save time and labor, keep (two quarts to two gallon) water troughs full in brooder house, laying house or range whether connected to barrel, gravity, or pressure system. No chatter or pressure noises. Quickly shut off for cleaning troughs, etc. Made of brass, frost-proof, dependable. Fully guaranteed. \$1.50 Postpaid.



## Anti-Setting Device

STOPS THE HEN SETTING

Breaks 'Em Up in 24 Hours (Patent Applied For)

Does not in any way injure the fowl. Requires five seconds to apply. Wrap around the leg joint blank sides front and back; allow the hen to feed and run with the flock 24 hours, then remove. Price, 15c each; \$1.50 dozen, postpaid.



## Wing Bands

The best clinch or seal wing band manufactured. Price, 15c per doz.; 25c for 25; 35c for 50c; 60c per 100.

# Thermometers, Instruments, and Appliances

## Incubator and Brooder Repairs

We carry a full line of Buckeye Incubator and Brooder Repairs. See page 76.

Incubator Wicks—State sizes wanted. Price, 2 for 5c; doz. 25c, postpaid.

Brooder Wicks—No. 20, 40c; No. 30, 60c. Postpaid.

Putnam Stove Wicks—2 for 5c. Holder and Wick, 10c. Postpaid.

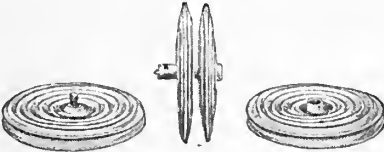
Putnam Heater Wicks—2 for 5c. Holder and Wick, 10c. Postpaid.

Incubator and Brooder Lamp Burners—For Buckeye, Cyphers, and other makes. No. 2 and 3—Large size, \$1.00; Postpaid, \$1.07. No. 1 takes 1-inch wick, has large flame, 75c. Postpaid 82c.

Chimneyless Lamp Burner—Price 75c. Postpaid 82c.

## Metal Wafer Thermostat

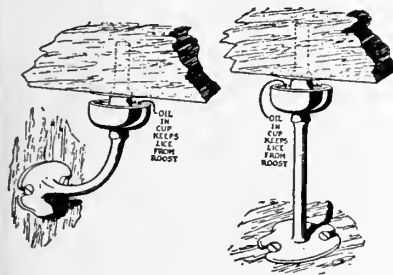
All brass, fits all makes brooders and incubators.  
3-inch ..... 50c  
4-inch ..... 80c  
5-inch ..... \$1.00  
via parcel post, 5c extra.



Gas Burner with Stand and Chimney for Incubators—Price each, \$2.00, Postpaid \$2.10.

## M.-S. LICE PROOF ROOST SUPPORT

These are indispensable in any poultry house, lice and mite are what stop your hens from laying. Price, 35c a pair (either straight or curved. Postpaid 45c.



## Thermometers

Buckeye Incubator Thermometer, postpaid, \$1.00

Buckeye Brooder Thermometer, postpaid, \$1.25.

Buckeye Electric Brooder Thermometer, postpaid, \$1.25.

"Tyco's" Incubator Thermometer, No. 5770 — Many poultry raisers prefer the standing type of Incubator Thermometer. No. 5776 is made with metal legs, which fold under and may be adjusted to almost any desired position. Sets in among the eggs on the floor of the incubator. Made in mercury tubes only. Price, 75c each; postpaid, 85c.

Tyco's Certified Thermometer No. 5783—Price, \$1.00 postpaid.

"Tyco's" Brooder Thermometer, No. 5792 — Mounted. Price, 60c; 70c postpaid.

"Tyco's" Incubator Hygrometer, No. 5796—Price, \$1.50. Extra wicks 10c each, postpaid.



Thermometer No. 5776.



Philadelphia Caponizing Set—In plain box, \$2.50. In velvet lined box. Price, \$2.75 postpaid.

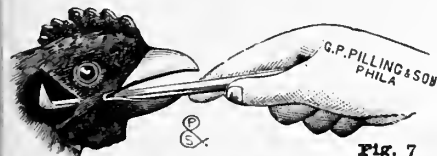


Fig. 7

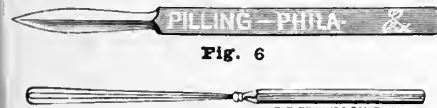


Fig. 6

Fig. 3.

Lansdowne No. 1 Caponizing Set, \$4.00, postpaid.

Cornell Caponizing Set, \$5.00, postpaid.

ANGULAR KILLING KNIVES—Fig. 7. Price, 50c postpaid.

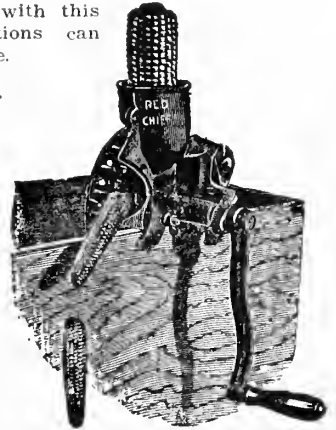
FRENCH POULTRY KILLING KNIFE—Fig. 6. Price 50c postpaid.

GAPE WORM EXTRACTOR—Price, 25c, postpaid. Fig. 3.

## M.-S. Brooder Thermometer

White enamel background, black figures and graduations, red liquid and magnifying lens, make this thermometer easy to read. Scale ranges from 20 degrees to zero with this instrument observations can be taken at a glance.

Price 75c, postpaid.



## "Red Chief" Corn Sheller

Heavy in construction, with patent oval-shaped teeth which are arranged to shell rapidly and avoid injuring the grain. Price, each \$2.50; weight 12 pounds.



## Mehler Scraper

Positively the best and handiest tool which has ever been offered to Poultry Keepers. Works both ways, coming and going. Made of the very best hard pressed steel. Price \$1.25, Postpaid, \$1.32

## CEL-O-GLASS

### What Is Cel-O-Glass?

Cel-O-Glass is an unbreakable, highly translucent material made by coating tough wire mesh with a transparent substance that lets through practically as much light as clear glass. Cel-o-Glass is very light in weight, absolutely weather-proof and extremely easy and economical to use. It is flexible, comes in rolls and can be used almost any place where fragile glass is required.

Brings the Ultra-Violet Rays of the Sun Indoors

In addition to its many remarkable advantages, Cel-O-Glass lets through the valuable health-building ultra-violet rays of the sun. Glass keeps these vitalizing rays out!

Pure sunlight is absolutely necessary for healthy growth among human, animal and plant life. When you use ordinary glass you are deprived of nature's greatest stimulant—the ultra-violet rays of the sun. You can easily remedy this condition, however, simply by replacing window glass with Cel-O-Glass—the material that admits pure unadulterated sunlight.

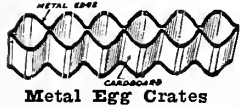
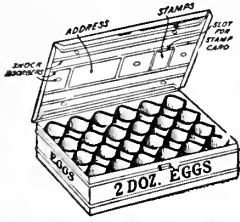
Cel-O-Glass—The great substitute for glass, much stronger and lighter than glass. Can be used wherever glass is used. 300 square feet to the roll. 3 feet wide cut any size from 1 running foot up. Price, per running foot, 26 in. wide 30c; 28 in. wide 32c; 36 in. wide 41c. Postage 10c for one running foot, 1c extra for each additional running foot; 100 ft. rolls, 26 in. \$29.00; 100 ft. rolls, 28 in. \$31.00; 100 ft. rolls, 36 in. \$39.00.

Flex-O-Glass (Glass Cloth)—One square yard, 35c; 10 square yards or more, 29c per square yard. Postpaid.



Protect Chicks & Plants with

## CEL-O-GLASS

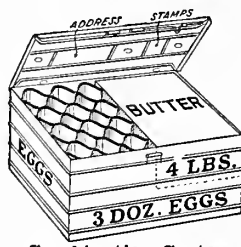


Metal Edge Filler

## Metal Egg Crates

Sell Eggs by Mail to Your City Friends  
Shipped in Aluminized Metal Egg Crates

Indestructible; made for interchangeable shipments; lasts for years; pays for itself in a few shipments. Buy yours now and realize more money for your eggs. Your friends want them. Thousands now in daily use.



Combination Crates

The Metal Edge Filler is a wonder. A new invention and cannot be beat for safely carrying eggs by mail. Light in weight and very strong.

Price of eggs in the city is about double the price obtained by the farmer at a local store for selected eggs. You might as well be receiving this added profit by shipping your eggs direct.

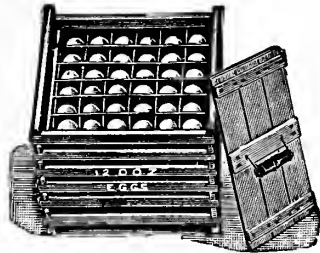
Butter and Eggs safely carried by mail in same crate. Can also be used in sending other products. See Combination Crate.

## Metal Egg Crate Prices and Mailing Weights

	Empty.	Filled.	Price.	Postpaid
1 Doz. size all eggs.....	2 lbs.	4 lbs.	\$1.00	\$1.08
1½ Doz. size all eggs.....	3 lbs.	5 lbs.	1.25	1.34
2 Doz. size all eggs.....	4 lbs.	6 lbs.	1.50	1.60
3 Doz. size all eggs.....	4 lbs.	8 lbs.	1.75	1.85
4 Doz. size all eggs.....	5 lbs.	11 lbs.	2.00	2.11
6 Doz. size all eggs.....	6 lbs.	15 lbs.	2.50	2.62
9 Doz. size all eggs.....	8 lbs.	22 lbs.	3.25	....
12 Doz. size all eggs.....	10 lbs.	28 lbs.	4.00	4.16

## Prices Combination Crates With Metal Containers Postpaid

No. 1—2 lbs. and 1 doz. eggs.....	\$1.50	\$1.57
No. 2—4 lbs. and 2 doz. eggs.....	2.00	2.08
No. 3—4 lbs. and 3 doz. eggs.....	2.25	2.34
No. 4—6 lbs. (3 2-lb. Containers).....	2.25	2.34
No. 5—12 lbs. (3 4-lb. Containers).....	2.50	2.60
No. 6—16 lbs. (2 8-lb. Containers).....	2.50	2.60
No. 7—24 lbs. (2 12-lb. Containers).....	3.50	3.75



**"HUMPTY DUMPTY" EGG CARRIER**—Fig. 5. A very light, strong and convenient egg crate and carrier. Made of hard wood slats securely fastened. The lid with handle, springs into position when crate is filled. Collapsible. 12 dozen, 75c. Parcel Post weight, 5 lbs.

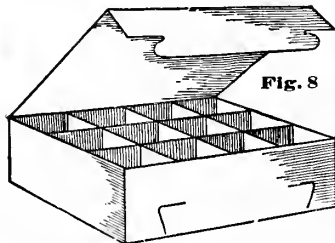
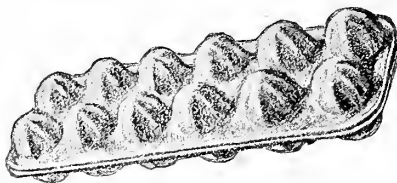


Fig. 8

**M.-S. EGG BOX**—Fig. 8. This is an ideal box for the retail egg trade holding 1 dozen, presenting the goods to the customer in an attractive package with the minimum amount of trouble for the seller. They knock down in very compact shape. 15c per dozen; weight, 2 lbs.. \$1.25 for 125; weight, 11 lbs. \$2.00 per pkg. of 250; 1,000, \$7.50.



**HOLED-TITE EGG CARRIERS**—Put in eggs, fold over flat. If you wish, tie with string. Job is done. When opened, half of eggs are shown. Makes them look better and bigger. With this one-piece handy package, you can sell right from the case, or you can put up dozens in advance. Holed-Tite Carriers come nested flat in packages of 250 moulded to shape of eggs—ready to use. Eggs packed in this carrier won't be broken, except by deliberate mishandling. Price same as above.

## Acme Egg Grading Scale

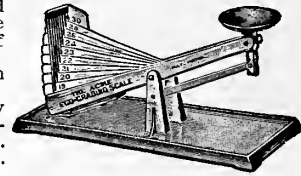
Is used by 50 State institutions and has been officially adopted as the standard scale in many sections of the United States and Canada.

Will grade all eggs ranging from 16 oz. to 32 oz. per dozen.

The Acme Scale is made entirely of aluminum which makes it rust-proof and practically indestructible. Works automatically. Easily read. Indicates grade instantly.

Price, \$3.00 each; Postpaid, \$3.10.

**COMMERCIAL EGG CRATE FILLERS**—Will fit any standard shipping case. 12 sets to case. \$3.25, postpaid \$3.75; 35c doz., postpaid 45c.



## Breeders' Magic Egg Tester

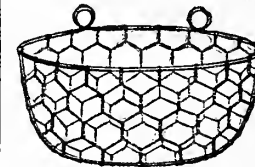
Is now universally used by poultrymen everywhere to select the strongest eggs for hatching BEFORE incubation. Requires no skill nor expense to operate—just a pair of hands and eyes. Tests 400 eggs per hour, and the greatest money saver in the realm of poultry supplies. Fully guaranteed, \$2.50 each.

**X-RAY EGG TESTER.** Fig. 1. Fits most any lamp or electric bulb. 25c, postpaid 35c.



Fig. 1.

## Nest Eggs and Wire Nests



These nests are strongly made from coppered wire, reinforced with coppered steel ribs, and will last for years. They are intended to fasten to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean, and are far superior to wooden boxes. Price, each, 25c; \$2.50 per dozen. Parcel Post wt. 1 lb. each.

**Opal Nest Egg**—Prices: 5c each, 40c dozen. Postpaid 50c.

**M.-S. Lime Nest Egg**—Will last indefinitely; looks most natural. 5c each; 50c dozen, postpaid.

**Chatfield's Napthalene Nest Eggs**—Keeps vermin away, disinfects nest. 5c each, 50c doz., postpaid.

## Fleming Egg Keep

Over 100,000 poultry raisers have used Fleming Egg Keep successfully—to keep fresh eggs fresh, without refrigeration.

Those in charge of the poultry husbandry departments of many of America's leading agricultural colleges have tested, approved and recommend Fleming Egg Keep.

Simply put treated eggs away in open containers—one 2-ounce can treats 75 to 100 dozen eggs.

Price—2-oz. can, \$1.00; 4-oz. can, \$1.50 postpaid.

## Egg Preserver

### WATER GLASS

Put your eggs down in the spring and summer when they are cheap and keep them fresh for ten months. One gallon makes sufficient solution for 50 to 60 dozen. Price, 1 quart, 35c; 1 gallon, \$1.00. Liquid not mailable.



Disinfectant, Deodorant, Sterilizer

FOR SANITATION

### In Preventing

Abortion  
Retained Afterbirth  
Calf Scours—Bloat  
Udder Infections  
Poultry Diseases  
Little Pig Diseases

### In Sterilizing

Milk Cans  
Milk Bottles  
Bottle Fillers  
Separators  
Strainers  
Milking Machines

### FOR DISINFECTING and DEODORIZING

Farm Buildings

The Home

Prices: 10 oz. 60c; 1 qt. \$1.25; 1 gal. \$3.00; 5 gal. \$12.50.  
Not Mailable.





## THE POWDER OF MANY USES

**CARBOLA** is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with brush or spray pump. Disinfects and dries pure white. Does not flake or peel off. *One pound covers 100 sq. ft.*



### IN THE CHICKEN HOUSE

To paint and disinfect side walls, ceilings, roosts and brooders. Helps keep the birds free from lice and mites and the buildings clean, light and sanitary. Sprinkle it in the nests and rub it into the birds. The dry powder is an excellent louse powder.

### IN THE BARN

To paint and disinfect side walls, ceilings, stalls, etc., as an aid to cleanliness and prevention of tuberculosis, foot and mouth disease, and other contagious diseases. Spread the dry powder on floor where the cow stands. Use it as a louse powder. Wash hands with powder before milking.



### IN THE HOUSE

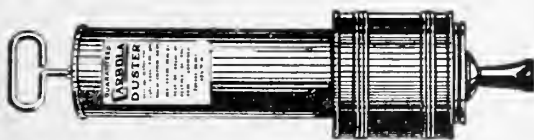
Carbola applied to walls and ceilings of cellars will kill bad odors, mustiness, prevent cobwebs, disease germs, drive out spiders, ants and other insects. Use the dry powder as cleanser for pots, pans, cutlery and for removing stains from woodwork. Especially recommended in bathroom for cleaning bathtubs, wash basins, tile and for disinfecting the bowl.

Dust Carbola on rose bushes, peas, cabbage, tomato plants, etc., to help get rid of insects and worms. Spray it on trees and tree trunks.

It increases light, sanitation and general appearance in factory buildings. It makes cleaner warehouses. An excellent and economical interior finish for garages.

Prices: 5 lbs. 75c, makes 2½ gals. postpaid 87c; 10 lbs. \$1.25, postpaid \$1.42; 25 lbs. \$2.85, postpaid \$3.18; 50 lbs. \$5.00, postpaid \$5.60.

## Dry Dusting With Carbola



An effective method of disinfecting. No moisture caused as with liquids—especially valuable during winter when live stock is confined.

## Carbola Dust Gun

Price, \$1.25; Postpaid, \$1.35.



## Kill Rats—Without Poison

**A New Exterminator that is Absolutely Safe to use Anywhere!**

Will not injure human beings, livestock, dogs, cats, poultry, yet is deadly to rats and mice every time.

### Poisons are too dangerous

K-R-O does not contain arsenic, phosphorus, barium carbonate or any deadly poison. Made of powdered squill as recommended by the U. S. Dept. of Agriculture in their latest bulletin on "Rat Control."

"One of our good customers just told us he gathered 105 dead rats on his farm from using a 2-ounce package of K-R-O. We hear of many finding 30 or 40 rats after using K-R-O, which is highly successful and should please you." Wolgamot's Drug Store, Richwood, O.

75¢ at all stores; large size (four times as much) \$2.00. Sent postpaid **SOLD ON MONEY-BACK GUARANTEE.** The K-R-O Company, Springfield, Ohio.

# K-R-O

## KILLS-RATS-ONLY

Price: Package sufficient to kill 200 or more rats, 75c postpaid.

## Common Sense Exterminator



# KILLS RATS

*Why feed rats when a 25c can of "Common Sense" will clean them out?*

"Common Sense" has been on the market for over a quarter century. It does the work or we would not handle it.

Get a can NOW and if you do not find it entirely satisfactory, we will refund your money.

Price, 25c. Not mailable.

## Sanaseed

The Modern Exterminator—  
A Seed That Kills Mice



"Sanaseed" is a seed, clean, quick and dependable. It is fed to mice as it comes from the package. No baits, no fuss or muss. Simply sprinkle "Sanaseed" where mice frequent. It attracts—mice prefer it to food stuffs. They eat it readily and quick vanish. They seek the outdoors to die.

Price 25c. Fully guaranteed. Not Mailable.

## Cyanogas

Calcium Cyanide (Crude) — A-DUST

Kills rats, mice, moles, pocket gophers, ground squirrels, woodchucks, ants, fleas, bees, roaches and moths.

**Directions: For Rats and Mice**—Pump dust in open rat hole with Cyanogas duster. Plug all holes from which dust is seen to emerge. Continue pumping until reasonably sure that the dust has permeated the rat warrens. Remove duster nozzle and block hole. Treat next open hole in same manner. Continue until all holes have been plugged. **Price**—½ lb. 45c; 1 lb. 75c; 5 lbs. \$3.00. Not mailable.

## Carbolineum

A wood preservative, prevents rot and decay of woodwork above and below ground or water, and where subject to attacks of fungi, white ants and other borers. Also used to destroy chicken ticks and red mites in poultry houses. **Price, \$1.50 per gallon. Not mailable.**

On Articles Not  
Marked Postpaid  
Allow 7c for the  
1st lb. and 1c for  
every additional lb.

## Poultry Foods, Tonics, Disinfectants, Etc.

Prices on All Foods Subject to Change Without Notice

PRICES ON LARGER QUANTITIES ON REQUEST

**"AMERICAN" TURKEY POWDER**—It is sure to raise your young turkeys to healthy birds. Shipping weight, 2 lbs. Price, 30c.

**ALFALFA CLOVER MEAL**—Rich in protein and especially desirable for young birds. 5c lb.; 100 lbs. \$3.00.

**BARLEY**—Principally fed for making feathers and bone. 5c lb.

**BEEF SCRAPS**—Very rich in protein; 50 to 55 per cent protein, 12 to 15 per cent fat, 1 to 2 per cent fibre. 8c lb.; 10 lbs. 75c; \$5.50 per 100.

**BONE FLOUR**—Very beneficial as a bone builder. 10c lb.; \$5.00 100 lb.

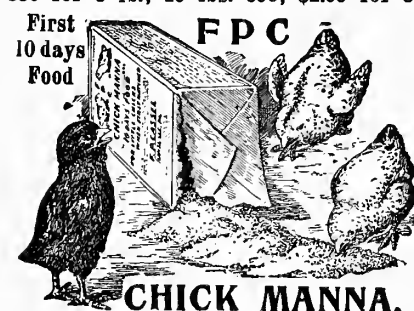
**BRAN (Wheat)**—For mash, etc. An excellent egg maker and very nutritious. 5c lb.

**BUCKWHEAT**—Fed very largely as change of diet. 6c lb.

**BUTTERMILK SEMI-SOLID**—1 gal. can, \$1.00; 5 gal. pail, \$4.25; 140 lb. barrel, these vary in weight, at \$7.00 per 100 lbs.

**CANADA PEAS**—Principally fed to pigeons. 7c lb.

**CHARCOAL**—Three grades, fine, medium and coarse. Disinfects the bowels and tones up the whole system. 1 lb. 8c; 3c for 5 lb.; 10 lbs. 60c; \$2.00 for 50 lbs.; 100 lbs. \$3.50.



**CHICK MANNA**—Is a complete food in every respect, requiring nothing more for the first ten days. Price, 1 lb. 15c; 3 lbs. 40c; 5 lbs. 60c; 15 lbs. \$1.65; 100 lbs. \$8.50.

**CORN CHOPS**—Suitable for either mash or feeding little chicks. 5c lb.

**CORN CRACKED**—Carefully sifted; fine or coarse. 1 lb. 5c.

**CORN WHOLE**—5c lb.

**GLUTEN MEAL**—For feeding to both poultry and cows. 1 lb. 5c.

**GRIT (Cockeyville Egg Shell)**—Fine, medium and coarse. 5 lbs. 15c; 25 lbs. 50c; 50 lbs. 75c; \$1.25 per 100 lbs.

**GRIT (Red Cross Health)**—For pigeons. 5 lbs. 20c; 10 lbs. 35c; 25 lbs. 65c; 50 lbs. \$1.25; 100 lbs. \$2.25.

**HEMP SEED**—Fed largely to pigeons, also to poultry during winter months. 8c lb.

**KAFFIR CORN**—Makes a fine food for pigeons, also used for poultry. 5c lb.

**LINSEED MEAL**—For feeding with the regular ration during the moulting period. 5c lb.

**MIDDINGS**—An excellent change in combination of a mash. 5c lb.

**MILLET** (for feeding)—Highly nutritious and used extensively for pigeons and young chickens. 6c lb.

**OATS**—Splendid for sprouting. 5c lb.; Rolled Oats, 6c per lb.

**OAT MEAL (Pin Head)**—An excellent food for young chicks after they are a few days old. 6c lb.

**OATS HULLED**—A splendid food for young chicks. 6c lb.

**OATS GROUND**—This makes an excellent dry feed when combined with other similar ration. 5c lb.

**OYSTER SHELLS**—Fine and coarse. 5 lbs. 15c; 50c for 25 lbs.; 50 lbs. 75c; \$1.25 per 100 lbs.

**PIGEON FOOD (PRATTS)**—Containing the best of grain. No corn. 6c lb.; 100 lbs. \$4.50.

**SUNFLOWER SEED**—For poultry, parrots, etc., 10c lb.; 10 lbs. 80c.

**TOBACCO STEMS**—1 lb. 5c; 50 lbs. \$1.75; 100 lbs. \$3.00.

**POUL TOBACCO (Tobacco Powder and Tonic)**—For the elimination of large and small round worms in poultry and as a tonic. Use 2 lbs. to 100 lbs. of mash. 2-lb. carton, 35c; postpaid, 43c; 100 lbs. \$5.50.

### Pure Cedar Bedding

FOR USE WITH DOGS, POULTRY AND PETS  
A Preventive of Disease and Vermin

NO FLEAS, NO VERMIN, NO DISEASE where Cedar Bedding is used.

ENDORSED BY DOG HOSPITALS and large kennels of the country and by many Poultry Fanciers.

#### PRICES OF CEDAR BEDDING

100 lb. bales.	Freight or express.....	\$7.50 F. O. B. Balto. Md.
50 lb. bales.	Freight or express.....	4.00 F. O. B. Balto. Md.
25 lb. bales.	Freight or express.....	2.25 F. O. B. Balto. Md.
10 lb. bales.	(Can be mailed).....	1.25 Postpaid \$1.41
1 lb. bales.	(Can be mailed).....	.30 Postpaid .37

## Bird and Fish Foods, Catnip Mouse



Canary Seed .....	Lb. 15c	Thistle .....	Lb. 45c
Bird Rape .....	15c	Sunflower .....	10c
Millet .....	.08c	Hemp Seed .....	.08c
Poppy or Maw.....	30c	Mixed Bird Seed.....	15c

Special price on all the above in quantities.  
Flax Seed.....25c  
Cuttle Fish Bone—Price, 5c each; 50c lb. postpaid.

**"Gloria" Song-Restorer Food**—This is scientifically proportioned and has been fed with great success. Price, 1 lb. 25c; Postpaid, 32c.

**For-get-me-not, Wild Bird, Seed Mixture**—Feed the little songster in the winter time. 15c lb. Postage extra.

**Bird Sand** for Canaries and other birds. Very necessary. What we offer is sifted and free from all dust. Carton, 15c per lb. Postpaid 25c.

**Spratt's Fish Food**—15c, postpaid 20c.

**Catnip Mouse**—Make kitty happy. 10c, postpaid.

**Burnetts Lightning Bird Regulator**—25c, postpaid 32c.

**Burnetts Unexcelled Bird Food**—25c, postpaid 32c.

### SPRATT'S BIRD FOODS

#### Cage Birds Want Spratt's "Sing-Song"

An Appetizing Food and Pick-Me-Up for All Songsters

Price, 15c, postpaid 20c.

#### Spratt's Cod Liver Oil Cage Bird and Nestling Food

For feeding young birds and old birds in the moulting season. A tonic and flesh and bone maker. Unequaled as an aid to father growth. In 4 oz. package. Price, 25c, postpaid 30c.



### Spratt's Moulting Food

It is not only a valuable tonic mixture but a flesh and bone-making food, keeping birds in good health during the moulting period. As a feather producer, it is unrivaled. In 9 oz. package. Price, 25c, postpaid 32c.

### Spratt's Egg, Fruit and Seed Canary Mixture



Totally unlike any other mixture prepared for regular canary-feeding, Spratt's Egg, Fruit and Canary Seed Mixture offers the bird a delightful and wholesome change.

The quality of the European Canary Seed, sweet summer rape and other seeds forming the blend, is unsurpassed and the addition of egg-flake and fruit makes it perfect. Its regular use (alternated occasionally with Spratt's Cod Liver Oil Cage Bird Food) must result in improved beauty, health and song. Price, 25c, postpaid 30c.

### Spratt's Red Mite Traps

Spratt's Red Mite Traps for all cage birds will last a lifetime. They are easily installed, effective and an absolute necessity.

Birds are happy when they are free from mites.

Bird lice exist in practically every cage. They suck the life-blood and weaken cage birds, thereby preventing them from singing, from hatching and from laying. Simply remove other perches at night to enable the bird to roost on the mite trap perch. Mites crawl along the grooves of the stick into the mite trap and become entangled in the cotton which must be removed from the tin drum and burnt two or three times a week. By constantly replacing with fresh cotton, you will have a happy, healthy bird. Price 25c postpaid.

### Spratt's Dog Dishes

NON-UPSETTABLE — GLAZED EARTHENWARE

Suitable for dogs, cats and other animals.

Two sizes: Small, 5½ inches in diameter, price \$1.00. Postpaid \$1.10.

Large, 8 inches in diameter, price \$1.75, postpaid \$1.85.



## Walko Remedies

**WALKO WHITE DIARRHEA, ROUP AND CHOLERA TABLETS**—Price 50c and \$1.00 pkg., both postpaid.

**WALKO EGG MAKER (Tonix)**—Price, 50c and \$1.00; postpaid, 60c and \$1.15, respectively.

**WALKO SPECIAL LICE POWDERS**—Price, 50c; postpaid, 60c.

**LEE'S LICE KILLER**—Liquid  
Qt. 60c; 2 qts. 90c;  
1 gal. \$1.50 Not  
mailable.

**LEE'S GERMO-ZONE**—The best  
tonic for poultry of  
all kinds. Cures  
roupe, cholera, and  
other poultry dis-  
eases. 4 oz. bottle, 40c.  
12 oz. bottle....\$ .75  
32 oz. bottle.... 1.50  
1 gallon..... 4.50  
Not Mailable.

**LEE'S VAPO SPRAY**—Very beneficial for spraying around the  
roosting quarters at night in cases of Roup, Canker, Bronchitis  
and Pneumonia. 1 Qt. 75c; ½ gal. \$1.25. Not mailable.

**LEE'S FLU KOFF EMULSION**—For Roup, Colds, Bronchitis  
and Pneumonia. Price \$1.00. Not mailable.

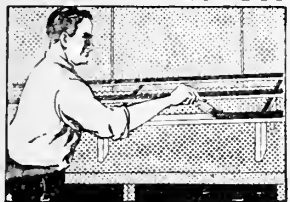
**LEE'S "GIZZARD WORM CAPSULE"**—Expels worms without  
sickening the chicken or retarding egg production. 50 Capsules  
\$1.00, postpaid; 100 Capsules, \$1.75, postpaid.

**F. & E. CHICK PICK**—See page 77.

**DR. HESS POULTRY PANAMIN**—3 lbs. 50c, postpaid 60c;  
7 lbs. \$1.00, postpaid \$1.14; 15 lbs. \$2.00, postpaid \$2.22; 25 lbs.  
\$3.00, postpaid \$3.32.

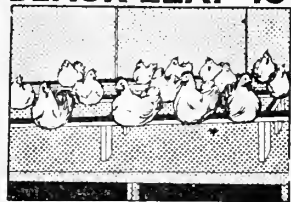
**SULPHUR CANDLES** for fumigating sick rooms, poultry  
houses, etc. 15c each, postpaid 22c; 2 for 25c, postpaid 33c;  
\$1.25 per dozen, postpaid \$1.38.

## "PAINT THE ROOSTS



WITH "BLACK LEAF 40"

## "BLACK LEAF 40"



WORKS WHILE THEY ROOST

To the Poultry Industry we take pleasure in announcing a new  
method of controlling poultry lice with "Black Leaf 40," dis-  
covered by Mr. William R. Stewart, a poultryman of Arcadia,  
Calif. This discovery of a new use for this "Old Reliable" and  
time-proven product will be of inestimable value to poultrymen  
everywhere. 10-lb. tin, \$11.85; 5-lb. \$7.00; 2-lb. tin, \$3.75; 1-lb.  
\$2.50; ½-lb. size, \$1.25. Treats 90 to 120 running feet of roost.  
Other sizes in proportion. 1-ounce bottle, 35c. Not mailable.

## O K Poultry Litter

### THE LEADING POULTRY LITTER

O K Poultry Litter is used  
by most professional poultry-  
men because it has the reputa-  
tion for being the best.

It is absolutely sanitary.  
It is decidedly economical,  
and makes the cleaning of  
poultry houses a matter of  
little worry because they need  
not be cleaned more than once  
a season.

Also many other advantages.  
Let us tell you about them.

Bale of 19-20 bushels, \$3.50;  
peck 35c; ½ bus. 50c; 1 bus.  
90c.

Larger quantities on quotation.



# Dethol

IMPROVED



Destroys all insects. It is stainless; can be  
sprayed direct on poultry. A thorough disin-  
fectant. ½ pt. 50c; 1 pt. 75c; 1 qt. \$1.25;  
1 gal. \$4.00. Combination Sprayer and Pint  
of Dethol, \$1.00. Being a liquid, it cannot be  
sent by parcel post; express only.

## Spratt's Patent Dog Soap (White) for Fleas,



Is of the greatest value to dog owners, as  
it is entirely free from poison and at the  
same time aids in the destruction of lice and  
fleas. Moreover, it keeps the skin free from  
Scurf, aids in the prevention of Mange and  
certain other skin diseases. No other soap  
should ever be used in preparing dogs for  
exhibition; it leaves the coat smooth and  
glossy.

Spratt's Patent Dog Soap contains no Carbolic Acid or Coal Tar  
but is nicely perfumed and produces a fine lather. Recommended  
by kennel owners throughout the world. Once tried, always  
used. Price per Tablet, 25c, postpaid 30c.

**Directions:** In using this for the destruction of Lice and  
Fleas, observe: Use only enough water with the soap to make  
a good lather, sufficient to saturate the coat and skin, and when  
it has remained in a minute or so, rinse out.

## Spratt's Dog Medicines

Price Includes Postage, Except Where Noted

Spratt's Sulfur Tablets—For heated blood, etc.....	\$ .60
Spratt's Nerve Sedative Tablets—For Cholera, St. Vitus' Dance, etc. ....	.60
Spratt's Alternative Tablets—For obstinate cases of Mange and Eczema .....	.60
Spratt's Cough Tablets—Generally effect a quick cure.....	.60
Spratt's Constipation Tablets—A gentle and effective laxa- tive .....	.60
Spratt's Astringent Tablets—To relieve Diarrhoea, which usually follows change of food, etc., etc.....	.60
Spratt's Special Tablets—Used in the treatment of distemper	1.00
Spratt's Ear Canker Ointment—For both internal and exter- nal forms of this disease.....	.75
Spratt's Medicine—For certain forms of mange and eczema.	.60
Spratt's Flea Powder—Aids in removing certain parasites from dogs, cats and other animals. Per tin.....	.30
Spratt's Purgative Tablets—Perfectly safe and effective....	.60
Spratt's Tonic and Condition Tablets—To build up after sickness and to put in bench show form, etc.....	.60
Spratt's Capsules—For ascarids and large round worms....	.60
Spratt's Capsules for Puppies—For ascarids and large round worms. May be given with perfect safety to puppies from 6 weeks old to 6 months.....	.60
Spratt's Tonic and Condition Tablets for Toy Dogs and Puppies .....	.60
Spratt's Special Tablets for Toy Dogs and Puppies.....	1.00

## Sergeant's Dog Remedies

Diuretic Pills—Price, \$1.20. Postpaid.	
Mange Medicine—Price, 65c; 75c. Postpaid.	
Condition Pills—Price, 60c. Postpaid.	
Sure Shot Capsules—Price, 60c. Postpaid.	
Sure Shot Liquid—Price, 60c. 70c Postpaid.	
Arsenic and Iron Pills—Price, 60c. Postpaid.	
Dog Rub (a Liniment)—Price 60c; 70c Postpaid.	
Canker Wash—Price, 60c; 70c postpaid.	
Cough Medicine—Price, 60c; 70c Postpaid.	
Well Mouth (Sore Mouth and Black Tongue)—Price 60c; 70c postpaid.	
Eye Wash—Price, 60c; 70c Postpaid.	
Tape Worm Medicine—Price, 60c. Postpaid.	
Rheumatism Pills—For muscular soreness. Price 60c. Postpaid.	
Constipation Capsules—Price, 60c. Postpaid.	
Skip-Flea Soap—Price, 25c. Postpaid.	
Carbolic-Tar Soap—Price, 25c. Postpaid.	

## Glover's Dog Medicines

A REMEDY FOR EVERY DISEASE

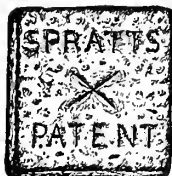
DOG BOOKS ON REQUEST

Your Choice of GLOVER'S, SPRATT'S, or SERGEANT'S  
DOG FOODS—See page 86.

# SPRATT'S PATENT, Ltd. Dog Foods



They Fight For Spratt's



## Spratt's Meat Fibrine Dog Cakes

A Staple Food For All Breeds

For sixty years the standard dog food, used by the leading breeders and fed at the principal dog shows throughout the world. The best results are obtained by giving the biscuits dry, not soaked, thereby compelling the dog to gnaw the food and thus producing a copious flow of saliva which materially aids digestion. Price, 1 lb. 15c; 5 lbs. 75c; 10 lbs. \$1.40; 25 lbs. \$3.25; 100 lbs. \$12.50. Postage extra.

## Spratt's Ovals

The Pocket Dog Biscuit

A small Meat-Fibrine dog biscuit of superior quality. Appreciated by small, medium and large breeds. A few of these diminutive dog cakes can be carried in the pocket when on a ramble with the dog. 1 lb. 15c; 5 lbs. 75c; 10 lbs. \$1.45; 25 lbs. \$3.40; 100 lbs. \$12.75. Postage extra.



## Chappel Bros. Dog and Cat Foods

### KEN-L-RATION

Is composed of clean wholesome meat, the best grade of cereals and Norwegian Cod Liver Oil in exactly the right proportions to make a perfect balanced ration. 1-lb. can 15c; postpaid 23c. 2 lbs. 25c; postpaid 34c. Case of 48 cans, \$5.75, not postpaid.

### Maro Meat

A CONCENTRATED MEAT PRODUCT

This is a basic meat food and must be fed with other material. For this purpose we recommend Boiled Rice, Rolled Oats, Barley, or other cereals may be used. Cooked vegetables are good, or dry bread. A 2½-lb. can supplemented with water and roughage as indicated above, will make from 8 to 10 pounds of appetizing, nourishing food for kennel use. This food fills a real need to large users.

Price—40c per can; postpaid 49c.

### KIT-E-RATION

The ingredients in this cat food contain properties so very essential for the growth and development of the cat or kitten. 1-lb. can 15c; postpaid 23c; 2 lbs. 30c; postpaid 39c.

### Ken-L-Biskit

THE GOLDEN CAKES OF ENERGY

These cakes are made in 3¼ inch squares, and are easily broken into six units, making the biscuit desirable for small dogs or puppies. Price—1 lb. 15c, postpaid 22c; 2 lbs. 25c, postpaid 33c; 5 lbs. 65c, postpaid 76c; 10 lbs. \$1.25, postpaid \$1.41; 25 lbs. \$3.00, postpaid \$3.31; 50 lbs. \$5.50, postpaid \$6.06; 100 lbs. \$10.00, not postpaid.

### Kib-L-Biskit

THE GOLDEN FLAKES OF ENERGY

They are a great convenience, as a few or many may be fed, as desired.

Prices—1 lb. 15c, postpaid 22c; 2 lbs. 25c, postpaid 33c; 5 lbs. 60c, postpaid 71c; 10 lbs. \$1.15, postpaid \$1.31; 25 lbs. \$2.15, postpaid \$2.51; 50 lbs. \$4.20, postpaid \$4.76; 100 lbs. \$8.25.



## Spratt's Meat Fibrine Puppy Biscuits

For Puppies of All Ages

A complete and perfect food for puppies from weaning time onwards, and for small breeds as the regular food instead of Spratt's larger Dog Cakes. Price, 1 lb. 15c; 5 lbs. 75c; 10 lbs. \$1.45; 25 lbs. \$3.50; 100 lbs. \$13.00. Postage extra.

## Spratt's All Terrier Meal

For Very Active Dogs

A highly nutritious, tissue building, muscle forming, bone making and conditioning food. Prices, 1 lb. 15c; 5 lbs. 65c; 10 lbs. \$1.25; 25 lbs. \$2.50; 100 lbs. \$9.50. Postage extra.

## PEERLESS DOG FOOD

A Food for Dogs and Puppies

The best dog food on the market in the shape of meal; can be fed dry or wet. We have hundreds of customers who are feeding this highly nutritious food. Price of Food—1 lb. 10c; 5 lbs. 45c; 10 lbs. 80c; 100 lbs. \$6.00. Price subject to change. Postage extra.

## Sergeant's Kibbled Dog Food

Due to the numerous and persistent demands upon us from dog owners for a high class, palatable dog biscuit, we are now prepared to offer Sergeant's Dog Food in cracker form.

Sergeant's Dog Food is the result of long study and experience in feeding. It carries all the best food essentials, and is a quick, easy way to feed. We guarantee its high food value, as it contains clean, freshly cooked beef, and whole wheat flour, together with other ingredients. A properly balanced ration is proven by feeding this food to your dog. It shows in his improved health and vigor. A very nutritious food for dogs or puppies.

1 lb. 15c; 2 lbs. 25c; 5 lbs. 60c; 10 lbs. \$1.15; 100 lbs. \$10.00. Postage extra.

## D & G Dog Foods

A HIGHLY CONCENTRATED FOOD

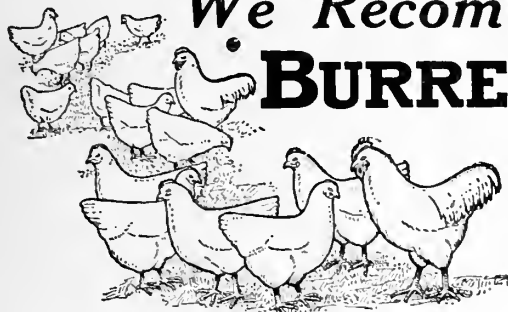
Equal to Twice Its Weight in Meat

They contain whole wheat flour, clean cooked beef, milk, malt, soda and other foods, mixed to give the proper amount of protein, carbohydrates, vitamins, minerals, etc., for a dog's good health. They are carefully prepared in a clean, modern bakery. Three sizes—Dog Cakes, Kibbled and Puppy Meal.

Price—1 lb. 15c; 2 lbs. 25c; 5 lbs. 60c; 10 lbs. \$1.10; 25 lbs. \$2.50; 50 lbs. \$4.50; 100 lbs. \$9.00. Postage extra.



# We Recommend BURRELL-DUGGER REMEDIES



Every remedy sold under a positive  
guarantee of Money Back if Not Satisfied

Now Used and Endorsed by Leading  
Poultrymen from Coast to Coast

## For Chicken Lice!

U. S. Government recommends new  
chemical. Destroys even young  
lice as they hatch

Poultry raisers need guess no longer as to the best  
method of getting rid of poultry lice. After many tests,  
the U. S. Department of Agriculture has found Sodium  
Fluoride superior to any other preparation for this pur-



"I Need T. S. F."

pose. They say it kills both  
old and young lice, includ-  
ing unhatched lice present at the  
time of treatment. Talcimized  
Sodium Fluoride (called "T.  
S. F.") is made especially for  
poultry use. It is less irritat-  
ing than straight Sodium  
Fluoride, penetrates the plumage  
more thoroughly, and comes  
packed in a moisture-proof,  
shaker-top package bearing the  
U. S. Government's directions  
for using. It is convenient—  
never cokes or loses strength—  
Full directions are on every  
can of T. S. F. for use in the three ways, either by dip, dust-  
ing or pinch methods. Prices—Small size (for 50 chickens),  
35c, postpaid 40c. Large size (twice the 35c size), 60c,  
postpaid 70c. Special size (5 times 60c size), \$2.50, postpaid.



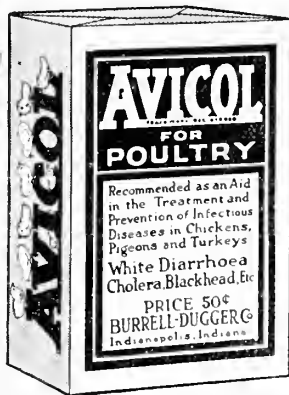
## AVICOL

For WHITE DIARRHEA  
in Chicks and Black-  
Head in Turkeys

Avicol does the work in 48  
hours. Almost from the very  
moment you drop the first  
Avicol tablet in the drinking  
water, the sick chicks start to  
get well. Usually, in a short  
time, the very ones that seemed  
too weak and sick to live another  
day, are running around as live-  
ly as crickets, full of pep,  
hungry, healthy, scratching and pushing for a place at the  
feeding trough. After a few days of Avicol treatment, it will  
be hard for you to tell just which chicks had been sick and  
dying. They will all be so lively and active, the very picture  
of health.

### Use AVICOL for Prevention and Treatment

Don't sit back and say your loss of baby chicks can't be  
stopped. IT CAN BE STOPPED—easily, quickly, and at almost  
no expense. All you need do is drop an Avicol tablet in the  
water occasionally. Avicol is a special bowel antiseptic. It  
stops disease and prevents its spread by destroying germ life  
and helping the chick withstand infection. Price, 50c. Special  
Large Size (almost 3 times 50c size), \$1. All postpaid.



## DON SUNG

Chinese for Egg-Laying

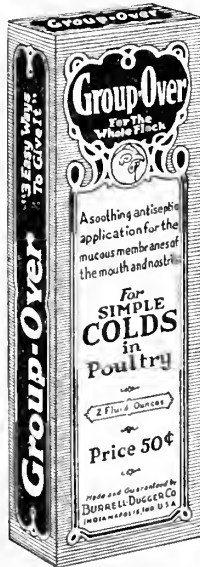
Makes Hens Lay in  
any Weather

"Hens won't lay in Fall and Winter", used to be accepted as  
a fact. But any one who has tried Don Sung knows that hens  
will lay right through the zero spells of winter, and all other  
cold or wet seasons. Don Sung is not an ordinary stock or  
poultry powder. It is a concentrated  
medicine—no needless bulk or filler—  
ready to add to your mash feed. It has  
a direct tonic action on the egg-laying  
organs and doesn't force or hurt the hen  
in any way. It produces more eggs by  
first putting the hen in good health, and  
then helping to maintain that health.

### COSTS NOTHING TO TRY

Every poultry raiser is invited to try  
Don Sung—at our risk. Separate 15 hens  
and give them Don Sung for one month.  
Then watch results. If Don Sung pays  
you, keep on with it. If you don't think  
it has paid you, tell us and back comes  
your money. No argument to it. Don  
Sung is guaranteed—try it, at our risk.

Prices of Don Sung Tablets: Small Size, 50c; Large Size  
(3 times the 50c size), \$1; Special Size (6 times the \$1 size),  
\$5. We can also supply POWDERED Don Sung (for large  
flocks) at these prices: 3 lbs. (same quantity as \$5 package  
of tablets), \$5; 10 lbs. \$10; 25 lbs. \$20; 50 lbs. \$35; 100  
lbs., \$65. All Postpaid.



## Group-Over

"Formerly called Roup-Over"  
"The Over-Night Remedy"  
For Colds in Poultry

Use Group-Over at the very first  
symptom of Colds in your flock. It  
clears the air passages and brings  
relief with magic quickness. Easily  
used, both for individual treatment  
and in the drinking water for flock  
prevention. Leading poultry raisers  
everywhere now use Group-Over, the  
overnight remedy. It's so easy!  
So sure! There's no other remedy  
like Group-Over—nothing "just as  
good." Have a bottle ready to use  
when you need it. Price, 50c; Large  
Size (3 times 50c size), All postpaid.  
**SAVED 57 PURE BLOODS FOR HER**

"I want to thank you for sending  
Group-Over to me a year ago this  
winter. If it had not been for your  
promptness, I'd have lost about 60  
pure bloods with Diphtheritic Roup.  
As it was, I lost 3—which were  
taken about 10:00 in the morning.  
I didn't lose any after the Group-  
Over came. Imagine my gratitude  
for Group-Over."—Nellie J. McCon-  
nell, Devils Lake, Michigan.

# Pratts

## "QUALITY" POULTRY FEEDS, REGULATORS and REMEDIES

### Pratts Buttermilk Baby Chick Food

The original "baby food for baby chicks." It has taken all the guess, worry and loss out of raising baby chicks. Use it the first month to six weeks and watch results. Chicks grow strong, uniform, vigorous and sturdy and are free from leg weakness, "pasting up" and digestive troubles.

Equally good for young turkeys, guineas, ducks, pheasants and game birds. A perfect "baby food" for young fowls.

**Prices—Pkg's.** 25c and 50c, postpaid 32c and 60c; 5 lb. bag 40c, postpaid 50c; 10 lb. bag 65c, postpaid 80c; 14 lb. bag \$1.10, postpaid \$1.25; 25 lbs. \$1.50, postpaid \$1.80; 50 lbs. \$2.75, postpaid \$3.30; 100 lbs. \$5.00.

**Ingredients:** Ground hulled oats, dried buttermilk, cooked wheat, sterilized bone-meal, ground whole old yellow corn wheat middlings, epsom salt, millet and rape.



#### Analysis (Guaranteed)

Protein .....	16% minimum	Fibre .....	5% maximum
Carbohydrates .....	69 % minimum	Ash .....	6.85%
Fats .....	3.5% minimum	Moisture .....	10% maximum

In packages and 5, 10, 14, 25, 50 and 100-lb. bags.

After the little fellows are about a month old switch them to

### Pratts Buttermilk Growing Mash

**DIGESTIBLE — APPETIZING — ECONOMICAL**



**Buttermilk Growing Mash—Lb. 6c; 100 lbs. \$4.25.**

**Ingredients —** Feeding oatmeal, dried buttermilk, wheat middlings, meat scraps, wheat bran, ground whole old yellow corn, fish meal and sterilized bone meal.

#### Analysis (Guaranteed)

Protein .....	17.5 %
Fat .....	4.5 %
Carbohydrates .....	58 %
Fibre .....	7 %

This splendid mash for the growing youngsters supplies an abundance of every element needed for making bone, muscle, feathers and health. Insures vigor and quick, uniform growth. When they are matured give them

#### AMERICA'S GREATEST "EGG MAKER"

—The one feed above all others that will give you more eggs per pound of feed consumed—is

### Pratts Buttermilk Laying Mash

This remarkable mash is the standard by which others are judged. Not alone theoretically right but proven by practical test to be the greatest "egg producer" ever made. There is a good reason for every ingredient in this splendid mash.

Pratts Buttermilk Laying Mash produces more eggs at less cost per dozen and gives greatest profits.

**Prices—Lb. 5c; 100 lbs. \$3.75.**

**Ingredients—**Dried buttermilk, ground clipped oats, ground whole old yellow corn, O. P. linseed meal, wheat middlings, alfalfa leaf meal, meat scrap, corn feed meal, wheat bran, fish meal, ½ of 1% salt.

#### Analysis (Guaranteed)

Proteins .....	20% minimum
Fats .....	4% minimum
Carbohydrates .....	55% minimum
Fibre .....	9% maximum

**PRICES ON PRATTS GRAIN AND MASH FEEDS SUBJECT TO MARKET CHANGES**



### Pratts Scratch Grains

**PRATTS VICTORY CHICK SIZE SCRATCH FEED—Lb. 6c; 100 lbs. \$3.75.**

**PRATTS INTERMEDIATE SIZE SCRATCH FEED—Lb. 6c; 100 lbs. \$3.75.**

**LARGE SIZE SCRATCH FEED—Lb. 5c; 100 lbs. \$3.25.**

### Remedies

**Pratts Poultry Regulator (For Health and Eggs)**

—Use it the year round for breeders, layers and growing stock. Pkg. 25c and 50c, postpaid 33c and 61c; 12-lb. pkg. \$1.40, postpaid \$1.60; 25-lb. pail, \$3.00, postpaid \$3.31; 100-lb. drum, \$10.00. F. O. B. Baltimore, Md.

**Pratts Chick Tablets** in the drinking water for the first couple of weeks. Proven by years of success, it will save you many dollars and chicks. Guaranteed. 25c and 50c packages. Postpaid.

**Pratts Special Compound—**For indigestion, sour crop, diarrhea and bowel troubles, commonly called CHOLERA. Gives quick, effective relief. Easy to use. Certain in action. Guaranteed. 25c and 50c. Packages postpaid.

**Pratts Poultry Worm Powder—**A scientific mixture of areca nut, worm seed, quassia and pomegranate root bark combined with a tobacco powder base. Safe and very effective. Package, 2 lbs. 50c; Postpaid 58c. 4½ lbs. \$1.00; Postpaid, \$1.11.

**Pratts R-P Tablets or Powder—**Save your birds from heavy roup losses. Guaranteed to give satisfaction or your money back. 25c and 50c packages postpaid.

**Pratts Gape Compound** an effective, easy remedy that will prevent further losses and save the sick chicks. External. 50c packages postpaid.

**Pratts Condition Tablets—**25c, postpaid.

**Pratts Sore Head Chicken Pox Remedy—**60c packages, postpaid.

**Pratts Powdered Lice Killer** is powerful, economical, non-poisonous and non-irritating. For use on poultry, in dustbaths, nests, etc. Rids poultry of all ages, dogs, cats, horses, cattle, hogs and sheep of lice, ticks and other insect pests. Can also be used on vines, plants and flowers. In sifter cans, 25c and 50c. Postpaid, add 5c & 10c.

**Pratts Poultry Disinfectant** insures poultry health. It is a cheap, powerful, non-poisonous disinfectant. Quart, 55c; half gallon, 90c; gallon, \$1.50, not available.

**Pratts N-K Worm Tablets—**Adults, 50 tablets \$1.00; 100 tablets \$1.75. Chicks, 50 tablets 65c; 100 tablets \$1.00. Postpaid.

**PRATT'S ANIMAL REGULATOR** is a regulator, digestive and mild tonic. The ingredients consist of pure medical roots, herbs and barks, carefully blended in the exact proportions necessary to gently but surely act on the blood, bowels, liver and digestive organs of horses, cows, sheep and hogs. It causes perfect digestion. Packages 25c, Postpaid 32c; packages 50c, Postpaid 58c.

**Pratts Hog Tonic** makes healthy hogs. Pkg. 50c; postpaid 58c.

### What's a Good Laying Mash Worth?

Almost anyone can make a mash so "cheap" that its first cost will cause many poultry raisers to buy it on that account alone. Don't be misled; do a bit of figuring first. The difference in cost between a "cheap" mash and a good mash such as Pratt's Buttermilk Laying Mash seldom exceeds \$10 a ton. With eggs at 50c a dozen, it will take 240 eggs more per year to pay the difference. As a ton of mash will feed 60 hens for a year, that means but 4 eggs more from each hen, one more egg every three months. All over that is clear profit in favor of the good mash. Any poultryman knows that a good laying mash will show a far greater increase than four more eggs per year per hen. So don't be misled by first cost, avoid feed that is recommended because it is "cheap." Results, not first cost, are what make profit.

The average feed produces eggs at about 20c per dozen. Egg-laying contests and successful poultrymen all over the country tell us their figures show that Pratt's produces eggs at about 14c per dozen—a clear, extra profit of 6c a dozen for Pratt feeders.

With good layers averaging 14 dozen eggs each a year and 100 pounds of mash being sufficient to feed 3 hens for that period, the extra profit on the 42 dozen eggs at 6c is \$2.50. Almost unbelievable; but figures don't lie.



# Conkeys

The Original Buttermilk Feed

## VI-TAL-IZED WITH Y-O

For Baby Chicks, Ducklings, Goslings, Turkeys and Pheasants



THE FIRST CHOICE OF ALL FEEDS—This feed truly "Fills the Bill" because it carries all the body building properties your chicks must have to live, thrive and become vigorous, husky broilers or healthy high-producing birds. The right kind and correct amount of every element needed—proteins, carbohydrates, fats, minerals and vitamins—is in this Starter and all are combined to bring about a rapid growth, strong bone development, and vigorous sturdy chicks—coupled with minimum mortality.

**INGREDIENTS**—Buttermilk, Corn Meal, Corn Feed Meal, Oatmeal, Wheat Middlings, Raw Bone Meal, Blood Flour, Meat Meal, Crude Milk Albumen, ½% Calcium, Salt ½%, Y-O (Cod Liver Oil, Yeast, Soybean Oil Meal, Wheat Middlings, ¼% Red Oxide of Iron).

**ANALYSIS**—Crude protein 15.00%; crude fat 4.00%; crude fibre 5.00%; nitro. free extract 59.00%; carbohydrates 64.00%.

**PRICE**—5 lbs. 40c, postpaid 51c; 10 lbs. 65c, postpaid 82c; 25 lbs. \$1.50, postpaid \$1.81; 100 lbs. \$5.00. Not postpaid.

### Conkeys Gecco Growing Mash With Y-O



If the growing stock at any time lack vitamins A, B and D, the result will be slow-developing, undersized pullets. For this reason we recommend feeding Conkeys Gecco Growing Mash with Y-O. Then their rapid development, their blood-red combs, yellow legs, lustrous plumage and alert bearing will amaze and delight you. You will experience the "big thrill" that always comes when the whole flock of pullets snap into a lay almost simultaneously.

**Prices**—6c lb.; 100 lbs. \$4.30.

### Conkeys Y-O—Cod Liver Oil—and Sunlight

It is now definitely known that the lack of vitamins brings about many ailments in all forms of animal and bird life, especially in the young. They must have these vitamins and since vitamins A and D are found in large quantities in cod liver oil and vitamin B is found to be very strong in yeast, Conkey has taken these two products and, by a secret process, sealed and combined them in such manner that the A and D vitamins of the oil do not lose their potency.

Conkeys Y-O is a chocolate brown powder, which can be easily and readily mixed with any dry mash. It has the savory odor of clean, sweet, freshly-refined cod liver oil and is unusually tasty and palatable to poultry. Hence fowls eat it greedily, as do all birds and animals.

**Prices**—1 lb. pkg. 55c, postpaid 63c; 2 lb. pkg. \$1.00, postpaid \$1.09; 5 lbs. pkg. \$2.00, postpaid \$2.12; 25 lb. drum, \$7.50, postpaid \$7.81; 50 lb. drum, \$14.00, postage extra; 100 lb. drum, \$22.50.



## CONKEYS POULTRY REMEDIES

Known All Over the World—The Poultryman's Standby. Keep a Few Select Remedies Always at Hand Ready for Emergency.

### Conkeys Old Reliable Powder

(Formerly Conkeys Roup Remedy)

This famous treatment has been on the market for thirty years, known to poultrymen everywhere as Conkeys Roup Remedy. Many would not try to keep poultry without Conkeys—the Old Reliable. Keep it on hand for use in emergency or put it in drinking founts on cold rainy days or when there is a sudden change in weather.

**Prices**—Pkgs. 25c, 50c, \$1; 1½ lb. can, \$2.35, all postpaid; 5 lb. can, \$5.50, postpaid \$5.75.

### Conkeys Poultry Pills

(Formerly called Conkeys Roup Pills)

**Prices**—Pkgs. 25c, 50c, \$1.00 (all postpaid); breeder size (1000 pills), \$2.75, postpaid \$3.00.

### Conkeys Balmo

(Formerly called Conkeys Canker Special)

A soothing, cooling application for relieving irritation around swollen eyes and head and in the mouth when treating conditions caused by colds and similar troubles.

**Prices**—Pkg. 50c, postpaid 55c.

### Conkeys Poultry Worm Remedy

(FOR LARGE ROUND WORMS)

Over 90 per cent of market poultry are infested with worms, of which there are many varieties. Worms cause great loss and flocks should be treated regularly. See directions on packages of Conkeys Worm Remedy.

**Prices**—Pkgs. 25c, 50c, or 30c, 55c, postpaid; breeder size (5 lbs.), \$2.75, postpaid \$2.85.

### Conkeys Salvo

(Formerly called Sorehead Remedy)

Good to have on hand for treating sores, cuts and wounds of any description.

**Prices**—Pkgs. 25c, 50c, or 30c, 55c, postpaid.

### Conkeys Diatex

(Formerly called Conkeys White Diarrhea Remedy)

These tablets have been on the market for years as Conkeys White Diarrhea Remedy. Once you have used this old reliable preparation you will never be without it. An astringent tablet for drinking water of poultry and baby chicks. Play safe—keep this remedy in the drinking water of all baby chicks until danger period of the first few weeks is past.

**Prices**—Pkgs. 25c, 50c, \$1.00, all postpaid; breeder size (950 Tablets), \$3.75, postpaid \$3.85.

### Conkeys Nox-I-Cide

(DIP AND DISINFECTANT)

For poultrymen, Nox-i-cide is indispensable as a red mite destroyer—paint it on the roosts and spray it into cracks. Spray premises daily when disease is present and once a week as a preventative of red mites, ticks, "blue-bugs" and disease epidemics.

**Cans**—Pt. 60c; qt. 90c; 2 qts. \$1.50; 1 gal. \$2.00, postage extra.

### Conkeys Poultry Tonic

Every bird from chick to maturity will be more productive, healthier and more profitable if given a good tonic and regulator. Conkeys Poultry Tonic helps birds get more out of their feed. They produce more eggs and better flesh on LESS FEED, by better digestion and assimilation.

**Prices**—Pkgs. 1½ lbs. 25c; 3¼ lbs. 50c; 7 lbs. \$1.00; pails 12 lbs. \$1.60; 25 lbs. \$3.00; bags 50 lbs. \$5.00; 100 lbs. \$9.50. Parcel post, express or freight charges extra.

## BARNES EMULSION

Baby Chicks to Matured  
Fowls  
Easily Fed in Water or Mash  
Can be used in any kind  
of vessel



"An Ounce of Prevention  
Beats a Pound of Cure"  
Prevents and Controls  
Results Permanent

Non-Poisonous, Not an Expellant, Not a Stimulant. Aids Vitality, Nutrition and Digestion, Promotes Rapid Growth.

Take a brood of baby chicks or a pen or flock of young stock or adult birds in which everything else is equal except that one-half of them shall receive Barnes Emulsion in their drinking water and the other half receive NO Emulsion. Then as the days pass by what you see with your own eyes in comparing these two groups for health, vitality, growth and production will convince you without question or doubt as to its effectiveness.

Write for Free Booklet—"Common Sense Vs. Worms."

### Barnes Emulsion Prices

1 Quart .....	\$ 1.00	5 gallon keg .....	12.50
1 gallon .....	3.00	30 gallon barrel .....	58.50
50 gallon barrel .....	92.50		

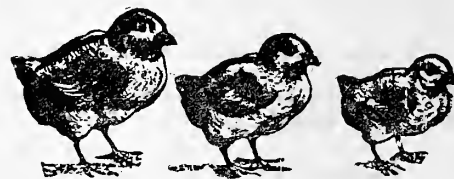
## M.-S. WONDER BRED CHICKS

STATE CERTIFIED

100% Live Delivery Guaranteed

Are hatched to live and mature to big fine healthy specimens. We are this season hatching thousands weekly, and are better prepared than ever to fill wants of patrons.

We advise placing orders ahead of time, as the demand for our M.-S. WONDER BRED CHICKS is always great. We will start deliveries the last week in February and continue until the first of June on all popular breeds.



### LIST OF M.-S. WONDER BRED CHICKS

Prices for February and March Subject to Change  
Without Notice

Special Prices on 500 and Over Lots.		100	50	25	12
White Leghorns .....		\$14.00	\$7.50	\$4.00	\$2.25
Brown Leghorns .....		14.00	7.50	4.00	2.25
Buff Leghorns .....		14.00	7.50	4.00	2.25
Black Minorcas .....		17.00	9.00	4.75	2.50
Mottled Anconas .....		17.00	9.00	4.75	2.50
Barred Plymouth Rocks .....		17.00	9.00	4.75	2.50
Rhode Island Reds .....		17.00	9.00	4.75	2.50
White Wyandotte .....		17.00	9.00	4.75	2.50
White Plymouth Rocks .....		19.00	10.00	5.25	2.75
Buff Plymouth Rocks .....		19.00	10.00	5.25	2.75
Buff Orpington .....		19.00	10.00	5.25	2.75

April prices \$1.00 per 100 less than February and March.

May and June prices \$1.00 per 100 less than April.

Small quantities accordingly. PRICES SUBJECT TO CHANGE.

### NOTICE!

Due to the close margin on which baby chicks, eggs and all live stock is sold we are obliged to sell this commodity for spot cash only. All orders should be accompanied by cash. One-fourth (25 per cent) of the amount of the order should accompany all orders for baby chicks for future delivery.

We exercise the greatest of care to send out vigorous and healthy chicks, but due to the many causes which hinder the growth and health of chicks, it is impossible for us to guarantee their development.



Dust with  
**Pomo-Green**

The Leaf-green Dust  
An Easy, Effective  
Way to

Protect Your Roses  
and other Flowering Plants Against Insects  
and Fungus Diseases Without Making  
the Treatment Conspicuous

## Plant a Rose Garden

CULTURAL DIRECTIONS FURNISHED

## M-S Monthly Blooming Roses

All Roses offered on opposite page are growing  
in 6-inch pots — Delivery in May

PRICE \$1.00 EACH, \$11.00 PER DOZEN

SUBURBAN AND CITY DELIVERY  
Cannot be sent by mail—Express only





Francis Scott Key



Etoile de Hollande



Red Radiance



Souv. de Claudius Pernet.



Mrs. E. P. Thom



Pink Radiance



Willowmere.



Madam Butterfly



Rev. F. Page Roberts



Lady Margaret Stewart

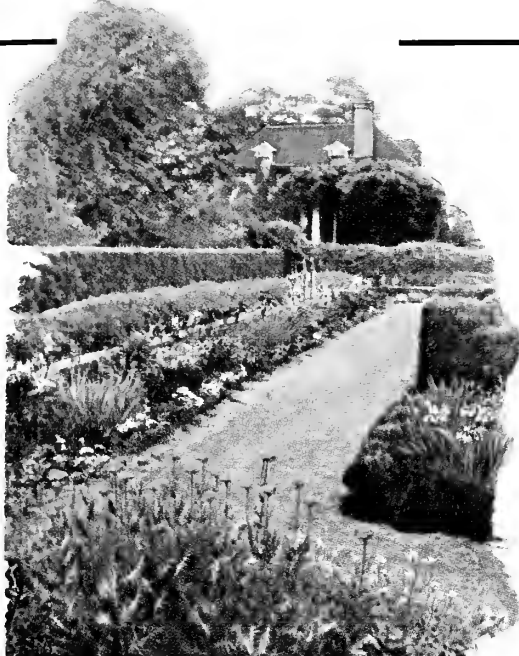


K. A. Viktoria



Betty Uprichard

See Opposite Page for  
Special Offer of Roses  
Listed on this Page.



## Grass and Flowers need these *different* foods

**N**O one plant food that is exactly suited to the needs of grass can serve the quite different needs of flowers and shrubbery.

When grass is fed properly, its roots spread through the entire surface layer of the soil. Thus only can grass form the close-matted turf that will stay green and thick through drought and heat and under trampling heels.

When flowers are fed properly, they form not only roots that are deep-growing but also stalks and stems and leaves that are sturdy and blooms that are abundant.

The right food for flowers is the right food for shrubs also, and for trees and vegetables—but not for grass.

### *BloomAid is the best food for flowers*

The chemical formula of BLOOM<sup>AID</sup> is as follows, in pounds per ton: ammonia 120, phosphoric acid 200, potash 80. The three vital elements of plant food are proportioned in BLOOM<sup>AID</sup> to grow healthy plants with stalks, stems, leaves and blooms.

### *V-C Fairway is the best food for grass*

The chemical formula of V-C FAIRWAY is as follows, in pounds per ton: ammonia 160, phosphoric acid 120, potash 100. These are the vital elements of plant food, and in V-C FAIRWAY they are proportioned especially to produce a thick growth of grass.

*Prices are as follows,*

### BloomAid

#### TABLETS

Box of 125, 25c postpaid.

#### LIQUID

8 ounce bottle, 50c, not mailable.

#### PULVERIZED

1 pound can, 25c, postpaid 32c.  
5 pound can, 50c, postpaid 61c.  
10 pound bag, 85c, postpaid 91c.  
25 pound bag, \$1.75, postpaid \$2.06.  
50 pound bag, \$3.00, postpaid \$3.56.  
100 pound bag, \$5.00, F.O.B. Baltimore.

### V-C Fairway

#### PULVERIZED

10 pound bag, 85c, postpaid 91c.  
25 pound bag, \$1.75, postpaid \$2.06.  
50 pound bag, \$3.00, postpaid \$3.56.  
100 pound bag, \$5.00, F.O.B. Baltimore.

The plant foods in both V-C FAIRWAY and BLOOM<sup>AID</sup> are derived from *selected* materials that include a generous measure of the more expensive but better organic forms.

V-C FAIRWAY and BLOOM<sup>AID</sup> are rich and clean—ready to use, easy to use.



# BloomAid

# V-C Fairway

GRASS FOOD



V-C FAIRWAY and BLOOM<sup>AID</sup> are special products of the laboratories and factories of a company that has been successful through many years in the making of plant foods—the Virginia-Carolina Chemical Corporation of Richmond, Va.